KV-S2911B/S2911D
KV-S2912U/S2913E

RM-832

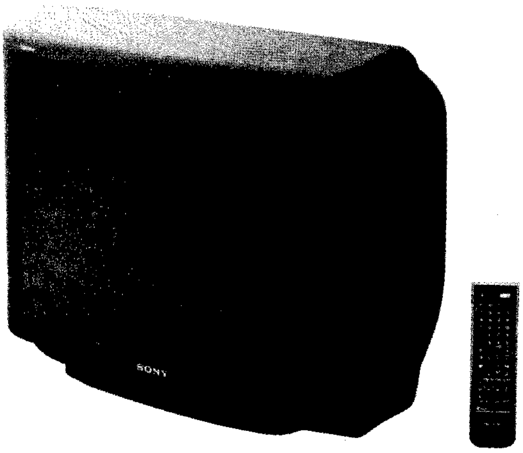
SERVICE MANUAL

French Model
Chassis No. SCC-F32C-A

AEP Model
Chassis No. SCC-F26C-A

UK Model
Chassis No. SCC-F25C-A

Spanish Model
Chassis No. SCC-F33C-A



AE-2 CHASSIS

MODELS OF THE SAME SERIES	
KV-S2911B/S2911D	KV-E2531D/E2931D/E3431D
KV-S2912U/S2913E	KV-E2531B/E2931B/E3431B
KV-E2533E/E2933E/E3433E/E2532U/E2932U	

SPECIFICATIONS

【KV-S2911B】
Television system B/G/H, D/K L, I
Stereo system GERMAN stereo
Channel coverage L VHF: F02-F10 UHF: F21-F69
CABLE : B-Q
B/G/H VHF: E2-E12 UHF: E21-E69
CABLE TV (1) : S1-S41
CABLE TV (2) : S01-S05, M1-M10, U1-U10
ITALIA VHF: A-H2 (C) UHF: 21-69
D/K VHF : R1-R12
UHF : R21-R60
CABLE TV : S1-S41
I UHF : B21-B69

【KV-S2911D】
Television system B/G/H, D/K
Stereo system GERMAN stereo
Channel coverage PAL B/G VHF: E2-E12 UHF: E21-E69
CABLE TV (1) : S1-S41
CABLE TV (2) : S01-S05, M1-M10, U1-U10
D/K VHF : R1-R12
UHF : R21-R60

【KV-S2912U】
Television system I
Stereo system NICAM stereo
Channel coverage UHF: B21-B69

【KV-S2913E】
Television system B/G/H, D/K
Stereo system GERMAN/NICAM stereo
Channel coverage PAL B/G VHF: E2-E12 UHF: E21-E69
CABLE TV (1) : S1-S41
CABLE TV (2) : S01-S05, M1-M10, U1-U10
ITALIA VHF: A-H2 (C) UHF: 21-69
D/K VHF : R1-R12
UHF : R21-R60

-Continued to next page-

TRINITRON® COLOUR TV

SONY®

MICROFILM

Colour system	PAL, SECAM, NTSC3.58, NTSC4.43
Picture tube	Super Black Trinitron Approx. 72 cm (29 inches) (Approx. 68 cm picture measured diagonally) 110 ° -deflection

Inputs/Outputs Terminals

【REAR】

⊸ 1 21-pin Euro connector
(CENELEC standard)
Inputs for audio and video signals
- inputs for RGB
- outputs of TV video and audio signals

⊸ 2/⊸ 2 21-pin Euro connector
- inputs for audio and video signals
- inputs for S video
- outputs for audio and video signals (selectable)

⊸ 4/⊸ 4 21-pin Euro connector
- inputs for audio and video signals
- inputs for S video
- outputs for audio and video signals (monitor out)

⊸ 2, ⊸ 4 S video inputs
- 4 pin DIN

⊸ Audio inputs (L, R) -phono jacks
⊸ S video output - 4 pin DIN
⊸ Audio outputs - phono jacks
⊸ Audio outputs (variable) - phono jacks
External speaker terminals : 2 pin

【FRONT】

⊸ 3 Video input-phono jack
⊸ Audio input-phono jacks
⊸ 3 S video input 4-pin DIN
∩ Headphone jack : Stereo minijack

Sound output	2×15 (RMS) 2×35 (Music)
Power consumption	145Wh (KV-S2911D) 145Wh (KV-S2911B) 145Wh (KV-S2913E) 218W (KV-S2912U)
Dimensions incl.speakers	Approx.702 x 558 x540 mm
Weight	Approx. 55.0 kg
Supplied accessories	RM-832 Remote Commander (1) IEC designation R6 batteries (2)
Other features	Digital comb filter (High resolution) PIP (Picture-in-picture) Programmable commander NICAM/GERMAN FASTTEXT

【RM-832】

Remote control system	infrared control
Power requirements	3V dc 2 batteries IEC designation R6 (size AA)
Dimentions	Approx.65×222×21mm (w/h/d)
Weight	Approx.157g (Not including Batteries)

Design and specifications are subject to change without notice.

	KV－S2911D	KV－S2913E	KV－S2911B	KV－S2912U
Pal Comb	ON	ON	ON	ON
PiP	ON	ON	ON	ON
RGB Priority	ON	ON	OFF	ON
Woofer Box	OFF	OFF	OFF	OFF
Scart 1	ON	ON	ON	ON
Scart 2	ON	ON	ON	ON
Front In (3)	ON	ON	ON	ON
Scart 4	ON	ON	ON	ON
Dyn. Convergerce	ON	ON	ON	ON
Projector	OFF	OFF	OFF	OFF
AKB in 16 : 9 mode	ON	ON	ON	ON
Norm B/G	ON	ON	ON	OFF
Norm I	OFF	OFF	ON	ON
Norm D/K	ON	ON	ON	OFF
Norm AUS	OFF	OFF	OFF	OFF
Norm L	OFF	OFF	ON	OFF
Norm SAT	OFF	OFF	OFF	OFF
Norm M	OFF	OFF	OFF	OFF
Language Preset	Deutsch	Espanol	Francais	English

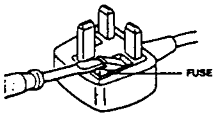
WARNING KV-S2912U only

The flexible mains lead is supplied to connected a B.S. 1363 fused plug having a fuse of 5 amp capacity. Should the fuse need to be replaced, use a 5 AMP FUSE approved by ASTA to BS 1362, ie carries the ◈ mark.

If the plug supplied with this appliance is not suitable for your socket outlets in your home, it should be cut off and an appropriate plug fitted.

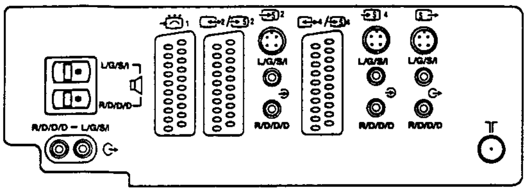
The plug severed from the mains lead must be destroyed as a plug with bared wires is dangerous if engaged in a live socket outlet.

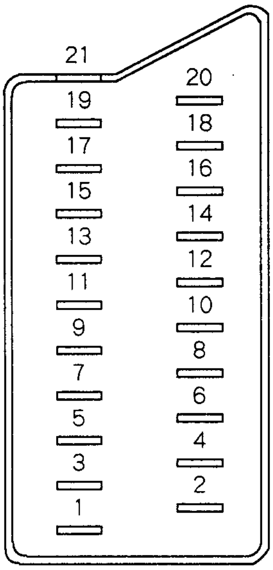
When an alternative type of plug ist used it should be fitted with a 5 AMP FUSE, otherwise the circuit should be protected by a 5 AMP FUSE at the distribution board.



How to replace the fuse
Open the fuse compartment with the blade screwdriver, and replace the fuse.

21 pin connector (1 2/ 4)



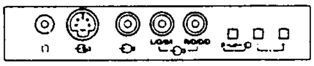


Pin No	1	2	4	Signal	Signal level
1	○	○	○	Audio output B (right)	Standard level : 0.5Vrms Output impedance : Less than 1kohm *
2	○	○	○	Audio input B (right)	Standard level : 0.5Vrms Input impedance : More than 10kohms *
3	○	○	○	Audio output A (left)	Standard level : 0.5Vrms Output impedance : Less than 1kohm *
4	○	○	○	Ground (audio)	
5	○	○	○	Ground (blue)	
6	○	○	○	Audio input A (left)	Standard level : 0.5Vrms Input impedance : More than 10kohms *
7	○	●	●	Blue input	0.7 ± 3dB, 75ohms, positive
8	○	○	○	Function select (AV control)	High state (9.5 – 12V) : Part mode Low state (0 – 2V) : TV mode Input impedance : More than 10kohms Input capacitance : Less than 2nF
9	○	○	○	Ground (green)	
10	○	○	○	Open	
11	○	●	●	Green	Green signal : 0.7V ± 3dB, 75ohms, positive
12	○	○	○	Open	
13	○	○	○	Ground (red)	
14	○	○	○	Ground (blanking)	
15	○	–	–	Red input	0.7V ± 3dB, 75ohms, positive
	–	○	○	(S signal) croma input	0.3V ± 3dB, 75ohms, positive
16	○	●	●	Blanking input (Ys signal)	High state (1 – 3V) Low state (0 – 0.4V) Input impedance : 75ohms
17	○	○	○	Ground (video output)	
18	○	○	○	Ground (video input)	
19	○	○	○	Video output	1V ± 3dB, 75ohms, positive Sync : 0.3V (– 3, +
20	○	–	–	Video input	1V ± 3dB, 75ohms, positive Sync : 0.3V (– 3, +
	–	○	○	Video Input/Y (S signal)	1V ± 3dB, 75ohms, positive Sync : 0.3V (– 3, + 10dB)
21	○	○	○	Common ground (plug, shield)	

○ Connected ●unconnected (open) * at 20Hz – 20kHz

4 Pin connector ( )

Pin No	Signal	Signal level
1	Ground	
2	Ground	
3	Y (S signal) input	1V ± 3dB 75ohm, positive Sync 0.3V $^{-3}_{+10}$ dB
4	C (S signal) input	0.3V ± 3dB 75ohm, positive



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CAUTION

SHORT CIRCUIT THE ANODE OF THE PICTURE TUBE AND THE ANODE CAP TO THE METAL CHASSIS, CRT SHIELD, OR CARBON PAINTED ON THE CRT, AFTER REMOVING THE ANODE.

ATTENTION

APRES AVOIR DECONNECTE LE CAP DE L'ANODE, COURT-CIRCUITER L'ANODE DU TUBE CATHODIQUE ET CELUI DE L'ANODE DU CAP AU CHASSIS METALLIQUE DE L'APPAREIL, OU AU COUCHE DE CARBONE PEINTE SUR LE TUBE CATHODIQUE OU AU BLINDAGE DU TUBE CATHODIQUE.

SAFETY-RELATED COMPONENT WARNING !!

COMPONENTS IDENTIFIED BY SHADING AND MARK ⚠ ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION AUX COMPOSANTS RELATIFS À LA SÉCURITÉ!!

LES COMPOSANTS IDENTIFIÈS PAR UNE TRAME ET PAR UNE MARQUE ⚠ SUR LES SCHÉMAS DE PRINCIPE, LES VUES EXPLOSÉES ET LES LISTES DE PIECES SONT D'UNE IMPORTANCE CRITIQUE POUR LA SÉCURITÉ DU FONCTIONNEMENT. NE LES REMPLACER QUE PAR DES COMPOSANTS SONY DONT LE NUMÉRO DE PIÈCE EST INDIQUÉ DANS LE PRÉSENT MANUEL OU DANS DES SUPPLÉMENTS PUBLIÉS PAR SONY.

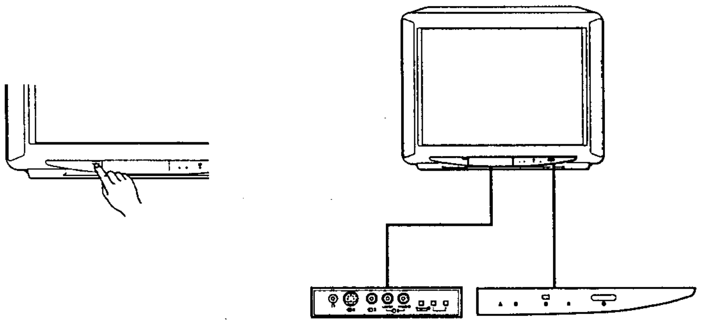
SECTION 1
GENERAL

The operating instructions mentioned here are partial abstracts from the Operating Instruction Manual. The page numbers of the Operating Instruction Manual remein as in the manual.

1-1. OVERVIEW

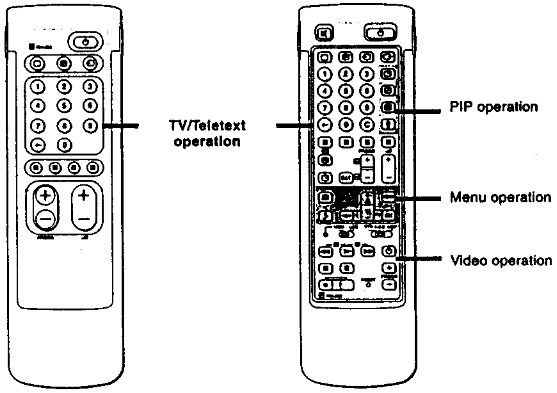
This section briefly describes the buttons and controls on the TV set and on the Remote Commander. For more information, refer to the pages given next to each description.

TV set-front



Symbol	Name	Refer to page
⌽	Main power switch	14
⏻	Standby indicator	14
A-ↀ-B	Stereo A/B indicators	16
∩	Headphones jack	22
-⊖3, -⊖3, -⊖3,	Input jacks (S video/video/audio)	22
P→◿→-⊖	Function selector (Programme/volume/input)	15
–/+	Adjustment buttons for function selector	15

Remote commander RM-832



.Simple side Full-Function side

Note
The SAT button does not operate with this TV.

TV/Teletext operation

Symbol	Name	Refer to page
🔇	Muting on/off button	15
⏻	Standby button	14
▢	TV power on/TV mode selector button	14
▣	Teletext button	15
-⊖	Input mode selector	15
⊖→	Output mode selector	23
1,2,3,4,5,6, 7,8,9 and 0	Number buttons	14
–/--	Double-digit entering button	14
C	Direct channel entering button	13
◿+/-	Volume control button	14
PROGR+/-	Programme selectors	14
⊕⊕	Teletext page access buttons	19
■	Picture adjustment button	16
♪	Sound adjustment button	16
⊕	On-screen display button	15
⊕	Teletext hold button	19
⊕	Time display button	15
■■■■	Fastext buttons	19

PIP (Picture-in-Picture) operation

Symbol	Name	Refer to page
▢	PIP on / off button	18
↑	PIP source selector	18
▢	Swap button	18
▢	PIP position changing button	18

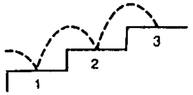
Menu operation

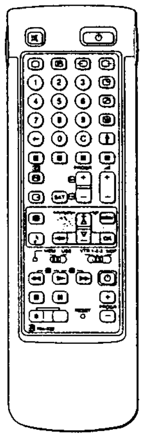
Symbol	Name	Refer to page
MENU	Menu on / off button	8
Δ+/∇–	Select buttons	8
OK	OK (confirming) button	8
←	Back button	8

Video operation

Symbol	Name	Refer to page
MEM USE	MEM/USE switch	25
MEM	MEM indicator	25
VTR 1/2/3, MDP	Video equipment selector	25
◀◀ ▶ ▶▶ ■ II ● ⏻ PROGR +/-	Video equipment operation buttons	25
RESET	RESET button	25

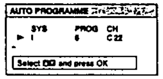
1-2. STEP 3 – TUNING IN TO TV STATIONS





Once you have set up the TV, you can choose the language of the menu. Then you should preset the channels (up to 100 channels) by choosing either the automatic or manual method.

The automatic method is easier if you want to preset all receivable channels at once. Use the manual method if you only have a few channels and want to preset channels one by one. The manual method is also convenient for allocating programme numbers to various video input sources.

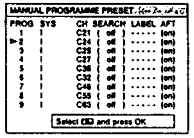


AUTO PROGRAMME

	SYS	PROG	CH
►	I	6	C 22

Select ⊡ and press OK

Auto Menu



MANUAL PROGRAMME PRESET

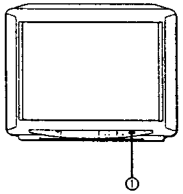
PROG	SYS	CH	SEARCH	LABEL	AFT
1	I	C21	(off)	- - - - -	(on)
►2	I	C24	(off)	- - - - -	(on)
3	I	C25	(off)	- - - - -	(on)
4	I	C27	(off)	- - - - -	(on)
5	I	C36	(off)	- - - - -	(on)
6	I	C32	(off)	- - - - -	(on)
7	I	C46	(off)	- - - - -	(on)
8	I	C55	(off)	- - - - -	(on)
9	I	C63	(off)	- - - - -	(on)

Select ⊡ and press OK

Manual Menu

Before you begin

- Check that the Full-Function side of the Remote Commander is visible.
- Locate Menu operation buttons on the Remote Commander. They are shaded in the illustration at the left.



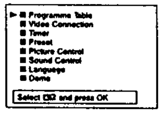
To go back to main menu
Keep pressing ←

To go back to the normal TV picture
Press MENU.

Note on the DEMO function
If you choose »Demo« on the main menu, you can see a sequential demonstration on the menu functions.

❶ Display the Menu

1 Depress ① on the TV.
The TV will switch on. If the standby indicator on the TV is lit, press ○ or a number button on the Remote Commander.
2 Press the MENU button.
The main menu appears. (See Fig. 1.)



► ■ Programme Table
■ Video Connection
■ Timer
■ Preset
■ Picture Control
■ Sound Control
■ Language
■ Demo

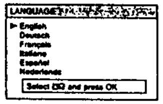
Select ⊡ and press OK

Fig. 1.

❷ Choose a language

1 Select »Language« with the Δ + or ∇ – button and press the OK button.
The LANGUAGE menu appears. (See Fig. 2.)
2 Select the language you want with Δ + or ∇ – and press OK, then press ←.

Now, choose one of the following methods
»Preset Channels Automatically«
or
»Preset Channels Manually«.



LANGUAGE

► English
Deutsch
Français
Italiano
Español
Nederlands

Select ⊡ and press OK

Fig. 2.

With this method, you can preset all receivable channels at once.

To stop automatic channel presetting
Press ← on the Remote Commander.

Notes

- After presetting the channels automatically, you can check which channels are stored on which programme positions. For details, see »Using the Programme Table« on page 16.
- You can exchange the programme positions to have them appear on screen in the order you like. For details, see »Exchanging the Programme Positions« on page 10.

❸ Preset channels automatically

1 Select »Preset« with Δ + or ∇ – and press OK.
The PRESET menu appears. (See Fig. 3.)

2 Select »Auto Programme« with Δ + or ∇ – and press OK.
The AUTO PROGRAMME menu appears. (See Fig. 4.)

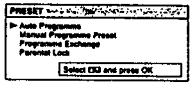
3 Press OK repeatedly until the first element of the »PROG« number is highlighted.

4 Select the programme (number button) from which you want to start presetting. Select the first element of the double-digit number with Δ + or ∇ – or the number buttons (e.g. For »04«, select »0« here) and press OK.
The second element of »PROG« will be highlighted.

5 Select the second element of the double-digit number with Δ + or ∇ – or the number buttons (e.g. For »04«, select »4« here) (See Fig. 5.) and press OK.

6 Press OK. The automatic channel presetting starts.

When presetting is finished, the preset menu reappears. All available channels are now stored on successive number buttons.

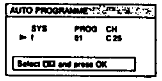


PRESET

► Auto Programme
Manual Programme Preset
Programme Exchange
Parental Lock

Select ⊡ and press OK

Fig. 3.

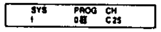


AUTO PROGRAMME

	SYS	PROG	CH
►	I	01	C 25

Select ⊡ and press OK

Fig. 4.



SYS	PROG	CH
I	0■	C 25

Fig. 5.

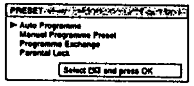
Use this method if there are only a few channels in your area to preset or if you want to preset channels one by one. You may also allocate programme numbers to various video input sources.

If you have made a mistake
Press ← to go back to the previous position.
To go back to main menu
Keep pressing ←.
To go back to the normal TV picture
Press MENU.

❸ Preset channels manually

1 Select »Preset« with Δ + or ∇ – and press OK.
The PRESET menu appears. (See Fig. 6.)

2 Select »Manual Programme Preset« with Δ + or ∇ – and press OK.
The MANUAL PROGRAMME PRESET menu appears. (See Fig. 7.)

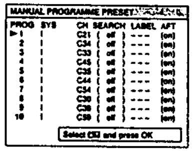


PRESET

► Auto Programme
Manual Programme Preset
Programme Exchange
Parental Lock

Select ⊡ and press OK

Fig. 6.



MANUAL PROGRAMME PRESET

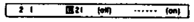
PROG	SYS	CH	SEARCH	LABEL	AFT
►1	I	C21	(off)	- - -	(on)
2	I	C34	(off)	- - -	(on)
3	I	C33	(off)	- - -	(on)
4	I	C45	(off)	- - -	(on)
5	I	C35	(off)	- - -	(on)
6	I	C44	(off)	- - -	(on)
7	I	C54	(off)	- - -	(on)
8	I	C30	(off)	- - -	(on)
9	I	C36	(off)	- - -	(on)
10	I	C58	(off)	- - -	(on)

Select ⊡ and press OK

Fig. 7.

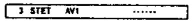
3 Using Δ + or ∇ –, select the programme position (number button) to which you want to preset a channel, and press OK.

4 Select if necessary, a video input source (EXT) with Δ + or ∇ –. Then press OK. The CH position will be highlighted.
(See Fig. 8.)


```
2 I    21  (off)   ······ (on)
```
Fig. 8.

To tune in a channel by frequency
After selecting F in step 5, enter three digits using the number buttons.

5 Using Δ + or ∇ –, select C (to preset a regular channel) or F (to tune in by frequency) and press OK.
The first element of the »CH« number will be highlighted.
If you have selected EXT in step 4, select the video input source with Δ + or ∇ –. (See Fig. 9.)


```
3 STET  AV1          ······
```
Fig. 9.

There are two ways to preset channels. If you know the channel number, go to step »6-Manual«,

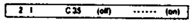
or

if you don't know the channel number, go to step »6-Search«.

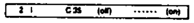
6 *Manual*

-a Select the first element of the »CH« number with Δ + or ∇ – or the number buttons and press OK.
The second element of the »CH« number will be highlighted.

-b Select the second element of the number with Δ + or ∇ – or the number buttons.
The selected number appears. (See Fig. 10.)


```
2 I    C35  (off)   ······ (on)
```
Fig. 10.

-c Press OK.
The »SEARCH« position is highlighted and the selected channel is now stored. (See Fig. 11.)


```
2 I    C35  (off)   ······ (on)
```
Fig. 11.

-d Press OK until the cursor appears by the next programme position.

-e Repeat steps 3 to 6 to preset other channels.

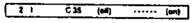
If you have made a mistake
Press ← to go back to the previous position.

To go back to main menu
Keep pressing ←.

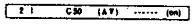
To go back to the normal TV picture
Press MENU.

6 *Search*

-a Press OK repeatedly until the colour of the SEARCH position changes.


```
2 I    C35  (off)   ······ (on)
```
Fig. 12.

-b Start searching for the channel with Δ + (up) or ∇ – (down).
The CH position changes colour. (See Fig. 12.)
The CH number starts counting up or downwards. When a channel is found, it stops. (See Fig. 13.)

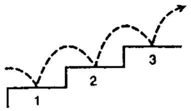

```
2 I    C50  (▲▼)   ······ (on)
```
Fig. 13.

-c Press OK if you want to store this channel. If not, press Δ + or ∇ – to continue channel searching.

-d Press OK until the cursor appears by the next programme position.

-e Repeat steps 3 to 6 to preset other channels.

1-3. ADDITIONAL PRESETTING FUNCTIONS

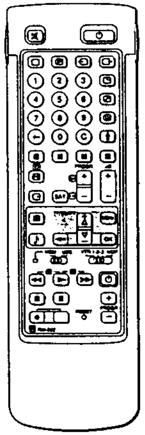


This section shows you additional presetting functions such as exchanging or skipping programme positions, captioning a station name, manual fine-tuning, and using the parental lock.

Before you begin

- Check that the Full Function side of the Remote Commander is visible.
- Locate the Menu operation buttons.

PROGRAMME EXCHANGE



Exchanging Programme Positions

With this function, you can exchange the programme positions to a preferable order.

1 Press MENU to display the main menu.

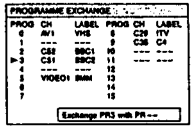
2 Select »Preset« with Δ + or ∇ – and press OK.
The PRESET menu appears.

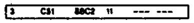
3 Select »Programme Exchange« with Δ + or ∇ – and press OK.
The PROGRAMME EXCHANGE menu appears. (See Fig. 14.)

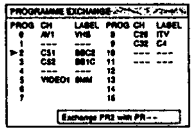
4 Using Δ + or ∇ –, select the programme position you want to exchange with another and press OK.
The colour of the selected position changes. (See Fig. 15.)

5 Using Δ + or ∇ –, select the programme position to be exchanged and press OK. Now the two programme positions have been exchanged. (See Fig. 16.)

6 Repeat steps 4 and 5 to exchange other programme positions.


```
PROGRAMME EXCHANGE
PROG  CH      LABEL  PROG  CH   LABEL
  0   AV1     VHS     8    C28  ITV
  1   ---     ---     9    C36  C4
  2   C52     BBC1   10    ---  ---
► 3   C51     BBC2   11    ---  ---
  4   ---     ---    12
  5   VIDEO1  8MM    13
  6                  14
  7                  15
            Exchange PR3 with PR--
```
Fig. 14.


```
3     C51     BBC2   11    ---  ---
```
Fig. 15.


```
PROGRAMME EXCHANGE
PROG  CH      LABEL  PROG  CH   LABEL
  0   AV1     VHS     8    C26  ITV
  1   ---     ---     9    C32  C4
► 2   C51     BBC2   10    ---  ---
  3   C52     BB1C   11    ---  ---
  4   ---     ---    12
  5   VIDEO1  8MM    13
  6                  14
  7                  15
            Exchange PR2 with PR--
```
Fig. 16.

For programme positions beyond 15
The display scolls automatically.

If you have made a mistake
Press ← to go back to the previous position.

To go back to main menu
Keep pressing ←.

To go back to the normal TV picture
Press MENU.

Tuning in a Channel Temporarily

You can tune in a channel temporarily, even when it has not been preset. Use the buttons on the Full-Function side of the Remote Commander.

1 Press C on the Remote Commander.
The indication »C« appears on the screen.

2 Enter the double-digit channel number using the number buttons (e.g. for channel 4, first press 0, then 4).
The channel appears.
However, the channel will not be stored.

MANUAL PROGRAMME PRESET

Skipping Programme Positions

You can skip unused programme positions when selecting programmes with the PROGR +/– buttons. However, the skipped programmes may still be called up when you use the number buttons.

1 Press MENU to display the main menu.

2 Select »Preset« with Δ + or ∇ – and press OK.
The PRESET menu appears.

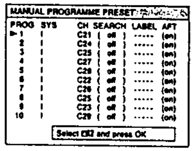
3 Select »Manual Programme Preset« with Δ + or ∇ – and press OK.
The MANUAL PROGRAMME PRESET menu appears.
(See Fig. 17.)

4 Using Δ + or ∇ –, select the programme position which you want to skip and press OK.
The »SYS« position changes colour.

5 Press Δ + or ∇ – until »– – – –« appears in the SYSTEM position. (See Fig. 18.)

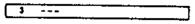
6 Press OK. (See Fig. 19.)
When you select programmes using the PROGR +/– buttons, the programme position will be skipped.

7 Repeat steps 4 to 6 to skip other programme positions.



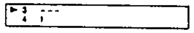
```
MANUAL PROGRAMME PRESET
PROG  SYS    CH  SEARCH  LABEL  AFT
▶ 1   I      C21 ( off )  -----  (on)
  2   I      C24 ( off )  -----  (on)
  3   I      C25 ( off )  -----  (on)
  4   I      C27 ( off )  -----  (on)
  5   I      C28 ( off )  -----  (on)
  6   I      C22 ( off )  -----  (on)
  7   I      C26 ( off )  -----  (on)
  8   I      C25 ( off )  -----  (on)
  9   I      C23 ( off )  -----  (on)
 10   I      C29 ( off )  -----  (on)
        Select ◻◻ and press OK
```

Fig. 17.



```
  3  ---
```

Fig. 18.



```
▶ 3  ---
  4  I
```

Fig. 19.

MANUAL PROGRAMME PRESET

Captioning a Station Name

You can »name« a channel or an input video source using up to five characters (letters or numbers) to be displayed on the TV screen (e.g. BBC1). Using this function, you can easily identify which channel or video source you are watching.

1 Press MENU to display the main menu.

2 Select »Preset« with Δ + or ∇ – and press OK.
The PRESET menu appears.

3 Select »Manual Programme Preset« with Δ + or ∇ – and press OK.
The MANUAL PROGRAMME PRESET menu appears.
(See Fig. 20.)

4 Using Δ + or ∇ –, select the programme position you want to caption and press OK repeatedly until the first element of the LABEL position is highlighted.

5 Select a letter or number with Δ + or ∇ – and press OK.
The next element will be highlighted.
Select other characters in the same way. If you want to leave an element blank, select – and press OK. (See Fig. 22.)

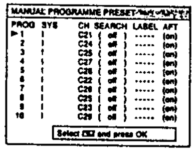
6 After selecting all the characters, press OK repeatedly until the cursor appears by the next programme position (at the left margin). Now the caption you chose is stored. (See Fig. 21.)

7 Repeat steps 5 and 6 to caption names for other channels.

If you have made a mistake
Press ← to go back to the previous position.

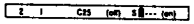
To go back to main menu
Keep pressing ←.

To go back to the normal TV picture
Press MENU.



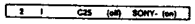
```
MANUAL PROGRAMME PRESET
PROG  SYS    CH  SEARCH  LABEL  AFT
▶ 1   I      C21 ( off )  -----  (on)
  2   I      C24 ( off )  -----  (on)
  3   I      C25 ( off )  -----  (on)
  4   I      C27 ( off )  -----  (on)
  5   I      C28 ( off )  -----  (on)
  6   I      C22 ( off )  -----  (on)
  7   I      C26 ( off )  -----  (on)
  8   I      C25 ( off )  -----  (on)
  9   I      C23 ( off )  -----  (on)
 10   I      C29 ( off )  -----  (on)
        Select ◻◻ and press OK
```

Fig. 20.



```
  2   I      C25  (off)  S█---  (on)
```

Fig. 21.



```
  2   I      C25  (off)  SONY-  (on)
```

Fig. 22.

MANUAL PROGRAMME PRESET

Manual Fine-Tuning

Normally, the AFT (automatic fine-tuning) is already operating. However, if the picture is distorted, you can use the manual fine tuning function to obtain better picture reception.

1 Press MENU to display the main menu.

2 Select »Preset« with Δ + or ∇ – and press OK.
The PRESET menu appears.

3 Select »Manual Programme Preset« with Δ + or ∇ – and press OK.
The MANUAL PROGRAMME PRESET menu appears.
(See Fig. 23.)

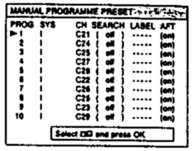
4 Using Δ + or ∇ –, select the programme position corresponding to the channel which you want to manually fine-tune, and press OK repeatedly until the AFT position changes colour.

5 Fine-tune the channel with Δ + or ∇ – so that you get the best TV reception. As you press the cursor buttons, the frequency changes from – 15 to + 15. (See Fig. 24.)

6 After fine tuning, press OK.
The cursor appears beside the next programme position (at the left margin). (See Fig. 25.) Now the fine-tuned level is stored.

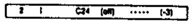
7 Repeat steps 4 to 6 to fine-tune other channels.

To reactivate AFT (automatic fine tuning)
Repeat from the beginning and select »ON« in step 5.



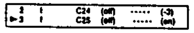
```
MANUAL PROGRAMME PRESET
PROG  SYS    CH  SEARCH  LABEL  AFT
▶ 1   I      C21 ( off )  -----  (on)
  2   I      C24 ( off )  -----  (on)
  3   I      C25 ( off )  -----  (on)
  4   I      C27 ( off )  -----  (on)
  5   I      C28 ( off )  -----  (on)
  6   I      C22 ( off )  -----  (on)
  7   I      C26 ( off )  -----  (on)
  8   I      C25 ( off )  -----  (on)
  9   I      C23 ( off )  -----  (on)
 10   I      C29 ( off )  -----  (on)
        Select ◻◻ and press OK
```

Fig. 24.



```
  2   I      C24  (off)  -----  (-3)
```

Fig. 25.



```
  2   I      C24  (off)  -----  (-3)
▶ 3   I      C25  (off)  -----  (on)
```

Fig. 26.

PARENTAL LOCK

Parental Lock

You can prevent undesirable broadcasts from appearing on the screen. We suggest you use this function to prevent children from watching programmes which you consider unsuitable.

1 Press MENU to display the main menu.

2 Select »Preset« with Δ + or ∇ – and press OK.
The PRESET menu appears.

3 Select »Parental Lock« with Δ + or ∇ – and press OK.
The PARENTAL LOCK menu appears. (See Fig. 26.)

4 Using Δ + or ∇ –, select the programme position you want to block and press OK.
The selected PROG number, CH and LABEL change colour indicating that this programme is now blocked. (See Fig. 27.)

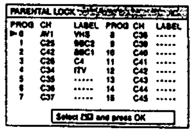
5 Repeat step 4 to block other programme positions.

Cancelling blocking

1 On the PARENTAL LOCK menu, select the programme position you want to unblock with Δ + or ∇ –.

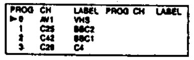
2 Press OK.
The selected PROG number, CH and LABEL change colour to normal colour indicating that the blocking has been cancelled.

If you try to select a programme that has been blocked
The message »LOCKED« appears on the blank TV screen.



```
PARENTAL LOCK
PROG  CH    LABEL  PROG  CH   LABEL
▶ 0   AV1   VHS      8   C38  -----
  1   C25   BBC2     9   C39  -----
  2   C42   BBC1    10   C40  -----
  3   C26   C4      11   C41  -----
  4   C34   ITV     12   C42  -----
  5   C35   -----   13   C43  -----
  6   C36   -----   14   C44  -----
  7   C37   -----   15   C45  -----
        Select ◻◻ and press OK
```

Fig. 26.

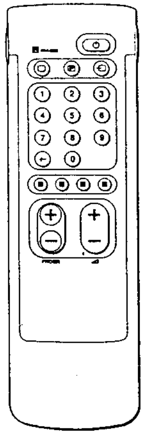


```
PROG  CH    LABEL  PROG  CH   LABEL
▶ 0   AV1   VHS
  1   C25   BBC2
  2   C42   BBC1
  3   C26   C4
```

Fig. 27.

operation Instructions

1-4. WATCHING THE TV



If no picture appears when you depress Ⓘ on the TV
and if the standby indicator on the TV is lit, the TV is in standby mode. Press ▢ or one of the number buttons to switch it on.

This section explains the basic functions you use while watching TV. Most of the operations can be done using the simple side of the Remote Commander.

Switching the TV on and off

Switching on

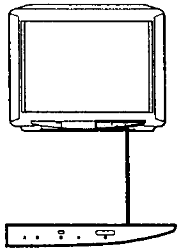
Depress Ⓘ on the TV.

Switching off temporarily

Press ⏻ on the Remote Commander.
The TV enters standby mode and the standby indicator on the front of the TV lights up.
To switch on again
Press ▢, PROGR +/–, or one of the number buttons on the Remote Commander.

Switching off completely

Depress Ⓘ on the TV.



Selecting TV Programmes

Press PROGR +/- or press number buttons.

To select a double-digit number

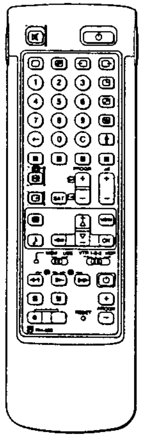
Press -/--, then the numbers.
For example, if you want to choose 23, press -/--, 2 and 3.

Adjusting the Volume

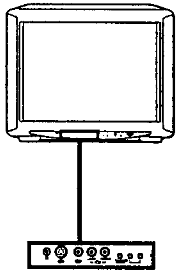
Press ⊿ +/–.

For details of the teletext operation, refer to page 18.

For details of the video input picture, refer to page 22.



Operating the TV Using the Buttons on the TV



With the buttons on the TV, you can select programmes, adjust the volume, and select video input sources.

- Press P→⊿→⊕ button repeatedly until the programme number, ⊿ (for volume), or ⊕ (for video input picture) appears. Then adjust with the –/+ buttons.
- Press –/+ buttons to switch on the TV from the standby mode.
- Press –/+ simultaneously to reset picture and sound controls to the factory preset level (RESET function).

Watching Teletext or Video Input

Watching teletext

- Press ⊜ tō view the teletext.
- Press three number buttons to select a page.
- Press one of the coloured buttons for fastext operation.
- Press ⊞ (PAGE +) or ⊟ (PAGE –) for the next or preceeding page.
- To go back to the normal TV picture, press ▢.

Watching a video input picture

Press ⊕ repeatedly until the desired video input appears. To go back to the normal TV picture, press ▢.

More Convenient Functions

Use the Full-Function side of the Remote Commander.

Displaying the on screen indications

- Press ⊙ once to display all the indications. They will disappear after some seconds.
  Press ⊙ twice to have the programme number and label stay on screen. Press twice again to make indications disappear.

Muting the sound

- Press 🔇.
  To resume normal sound, press 🔇 again.

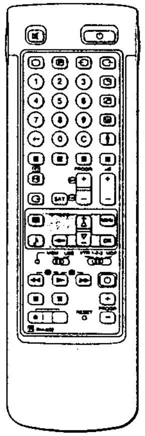
Displaying the time

- Press ⊘. This function is available only when teletext is broadcast.
  To make the time display disappear, press ⊘ again.

1-5. ADJUSTING AND SETTING THE TV USING THE MENU

PICTURE CONTROL

SOUND CONTROL



If you have made a mistake
Press ← to go back to the previous position.

To go back to the main menu
Keep pressing ←.

To go back to the normal TV picture
Press MENU.

Note:
HUE is only available for NTSC colour system and RESOLUTION does not work for SECAM colour system.

Note on LINE OUT
The audio level and the dual sound mode output from the ⊖ jack on the rear correspond to the Headphone VOLUME and DUAL SOUND settings.

When watching video Input p'cture
You can selec
SOUND to ch
the

Adjusting the Picture and Sound

Although the picture and sound are adjusted at the factory, you can adjust them to suit your own taste. In addition, you can change the aspect ratio of the TV display for wide screen effect, or set the resolution to obtain a higher quality picture. You can also select dual sound (bilingual) programmes when available or adjust the sound for listening with the headphones.

1 Press ■ (for picture) or ♪ (for sound) on the Remote Commander.

or

Press MENU and select »Picture Control« or »Sound Control«, then press OK.
The PICTURE CONTROL or SOUND CONTROL menu appears. (See Fig. 28 or Fig. 29.)

2 Using Δ + or ∇ –, select the item you want to adjust and press OK. The selected item changes colour. (See Fig. 30.)

3 Adjust the setting with Δ + or ∇ – and press OK.
The cursor appears beside the next item (at the left margin). (See Fig. 31.)
For the effect of each control, see the table below.

4 Repeat steps 2 and 3 to adjust other items.

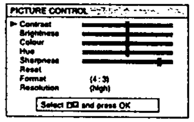

PICTURE CONTROL
▶ Contrast
Brightness
Colour
Hue
Sharpness
Reset
Format (4:3)
Resolution (high)
Select ⊡ and press OK

Fig. 28.

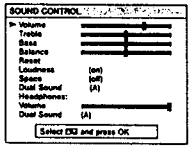

SOUND CONTROL
▶ Volume
Treble
Bass
Balance
Reset
Loudness (on)
Space (off)
Dual Sound (A)
Headphones:
Volume
Dual Sound (A)
Select ⊡ and press OK

Fig. 29.

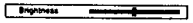

Brightness

Fig. 30.

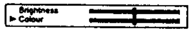

Brightness
▶ Colour

Fig. 31.

Effect of each control

PICTURE CONTROL	Effect	
Contrast	Less —+— More	
Brightness	Darker —+— Brighter	
Colour	Less —+— More	
Hue	Greenish —+— Reddish	
Sharpness	Softer —+— Sharper	
Reset	Resets picture to the factory preset levels	
Format	4:3: Normal	16:9: Wide screen effect
Resolution	Normal	high: Obtain a higher quality picture

SOUND CONTROL	Effect	
Volume	Less —+— More	
Trable	Less —+— More	
Bass	Less —+— More	
Balance	Nore left —+— More right	
Reset	Resets sound to the factory preset levels	
Loudness	off: Normal	on: When listening to low volume sound
Space	off: Normal	on: Obtain acoustic sound effect
Dual Sound	A: left channel	B: right channel stereo mono
	The selected mode of The A-◯-B indicator on the TV lights up (for NICAM broadcasts see next page)	
Headphones		
Volume	Less —+— More	
Dual Sound	A: left channel	B: right channel stereo mono

*Selecting Nicam Broadcasts**

This Sony TV has been designed to select Nicam broadcasts when available. Whenever a Nicam broadcast is received, »NICAM« appears briefly on the screen. When the Nicam programme ends, or you switch channels to one without Nicam, the A-◯-B indicators, on the TV will switch off.

Nicam programmes can be broadcast in two ways. You may select the sound you want to hear in either of these by first following the instructions explained on page 16.

Service Being Broadcast	Action	Effect	Indication on the TV A-◯-B	
Stereo	Press	Stereo Nicam (Mono 2-Channel)	✳	✳
	Δ + or ∇ –	mono	▭	▭
Press Δ + or ∇ – again to return to stereo Nicam (mono 2-channel)				
Bilingual	press	Channel A Nicam	✳	▭
	Δ + or ∇ –	Channel B Nicam	▭	✳
		mono	▭	▭
Press Δ + or ∇ – again to return to channel A Nicam				

* Depending on availability of service.

PROGRAMME TABLE

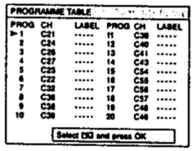
To select a programme using this menu
Select the programme number with Δ + or ∇ – and press OK.
The selected programme appears.

Using the Programme Table

On this table, you can see which channel is preset to which programme position. You can also select programmes using this table.

From the main menu, select »Programme Table« with Δ + or ∇ – and press OK.
The PROGRAMME TABLE menu appears. (See Fig. 32.)

To scroll to higher programme numbers, press Δ –.


PROGRAMME TABLE

PROG	CH	LABEL	PROG	CH	LABEL
▶ 1	C21	-----	11	C39	-----
2	C24	-----	12	C40	-----
3	C26	-----	13	C41	-----
4	C27	-----	14	C43	-----
5	C23	-----	15	C54	-----
6	C22	-----	16	C55	-----
7	C32	-----	17	C56	-----
8	C38	-----	18	C57	-----
9	C34	-----	19	C48	-----
10	C30	-----	20	C46	-----

Select ⊡ and press OK

Fig. 32.

TIMER

To go back to the normal TV picture
Press MENU.

To switch off the timer
Select »OFF« in step 3.

To check the remaining time
Press ⊕.

Using the Sleep Timer

You can select a time period after which the TV automatically switches into standby mode.

1 From the main menu, select »Timer« with Δ + or ∇ – and press OK.
The TIMER menu appears. (See Fig. 33.)

2 Press OK.
The time period option changes colour.

3 Select the time period with Δ + or ∇ –.
The time period (in minutes) changes as follows:
10 → 20 → 30 → 40 → 50 → 60 → 70 → 80 → 90
└———— OFF ————┘

4 After selecting the time period, press OK.
The cursor moves back to the left margin and the timer starts counting.
One minute before the TV switches into standby mode, a message is displayed on the screen.

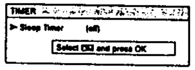
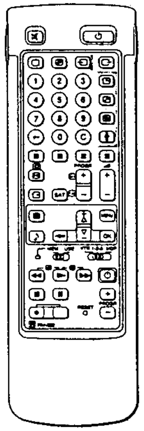

TIMER
▶ Sleep Timer (off)
Select ⊡ and press OK

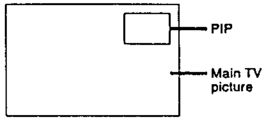
Fig. 33.

1-6. PIP (PICTURE-IN-PICTURE)



Note
RGB input source cannot be displayed in PIP.

With this function you can display a »PIP screen« (small picture) within the main TV picture. In this way you can watch or monitor the video output from any connected equipment (for example from a VTR) while watching TV or vice versa. For information about connection of other equipment, refer to page 21.



Switching PIP on and off

Press ◷.
The PIP screen will be displayed. The PIP picture will come from the source chosen when the TV was last used.

To switch PIP off
Press ◷ again.

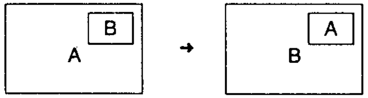
Selecting a PIP source

Press ↑.
The symbol ↑ will be displayed at the bottom, left-hand corner of the screen.
Press ⊖ repeatedly until the desired source is indicated (e.g. TV, AV 1, AV 2, YC2, AV 3, YC3, AV 4, YC 4).

Note
If no video source has been connected, the PIP picture will be noisy.

Swapping screens

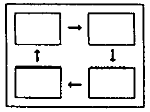
Press ⊡.
The main screen will switch the picture with the PIP screen.



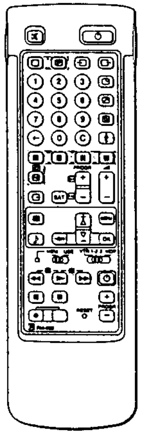
Note
If a TV programme is on the PIP screen and a video source on the main picture, and you want to change channels, first press ↑ and then the programme buttons or PROGR +/-.

Changing the position of the PIP

Press ⊙ repeatedly to change the position of the PIP screen within the main screen. There are four different positions available.



1-7. TELETEXT



Note
Teletext errors may occur if the broadcasting signals are weak.

With the simple side of the Remote Commander
You can switch teletext on and off, operate Fastext, and directly select page numbers.

Note
Fastext operation is only possible, if the TV station broadcasts Fastext signals.

TV stations broadcast an information service called Teletext via the TV channels. Teletext service allows you to receive various information pages such as weather reports or news at any time you want. For advanced teletext operation, use the buttons on the Full-Function side of the Remote Commander.

Direct Access Functions

Switching Teletext on and off

1 Select the TV channel which carries the teletext broadcast you want to watch.

2 Press ⊜ to switch on teletext.
A teletext page will be displayed (usually the index page).
If there is no teletext broadcast, »No text available« is displayed on the information line of the screen.

To switch teletext off
Press ○.

Selecting a teletext page

With direct page selection
Use the number buttons to input the three digits of the chosen page number.
If you have made a mistake, type in any three digits. Then re-enter the correct page number.

With page-catching

1 Select a teletext page with a page overview (e.g. index page).

2 Press ⊕ twice. »Page catching« will be displayed on the information line. The last digit if the first displayed page number flashes.

3 Using Δ + o ∇ –, select the desired page and press OK.
The requested page will appear in a few seconds.

Accessing next or preceding page
Press ⊞ (PAGE +) or ⊟ (PAGE -).
The next or preceding page appears.

Superimposing the teletext display on the TV programme

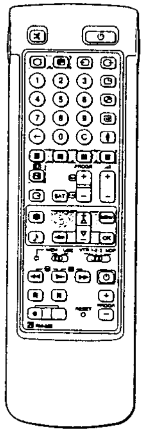
- Press ⊜ once in teletext mode or twice in TV mode.
- Press ⊜ again to resume normal teletext reception.

Preventing a teletext page from being updated

- Press ⊕ (HOLD). The HOLD symbol » ⊕ « displayed on the information line.
- Press ⊜ to resume normal teletext reception.

Using Fastext

With Fastext you can access pages with one key stroke.
When a Fastext page is broadcast, a colour-coded menu will appear at the bottom of the screen. The colours of this menu correspond to the red, green, yellow and blue buttons on the Remote Commander.
Press the corresponding coloured button on the Remote Commander which corresponds to the colour-coded menu. The page will be displayed after some seconds.



Note
Some of the features may not be available depending on the Teletext service.

Using the Teletext Menu

This TV is provided with a menu-guided teletext system. When teletext is switched in, you can use the menu buttons to operate the teletext menu. Select the teletext menu functions in the following way:

1 Press MENU. The menu will be superimposed on the teletext display. (See Fig. 34.)

2 Using Δ + o ∇ –, select the teletext function you want and press OK. (See Fig. 35.)

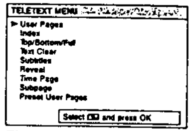

TELETEXT MENU
User Pages
Index
Top/Bottom/Full
Text Clear
Subtitles
Reveal
Time Page
Subpage
Preset User Pages
Select OK and press OK

Fig. 34.

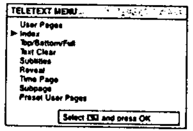

TELETEXT MENU
User Pages
Index
Top/Bottom/Full
Text Clear
Subtitles
Reveal
Time Page
Subpage
Preset User Pages
Select OK and press OK

Fig. 35.

USER PAGES/PRESET USER PAGES

See page 20 for information about presetting and operating the user pages.

INDEX

The index will give you an overview of the contents of the teletext and the page numbers.

TOP/BOTTOM/FULL

For convenient reading of a teletext page, you can enlarge the teletext display. After having selected the function, an information line TOP/BOTTOM/FULL will be displayed. (See Fig. 36.)

Press Δ + for »Top« to enlarge the upper half, ∇ – for »Bottom« to enlarge the lower one and OK for »Full« to resume the normal size.
Press ⊜ to resume normal teletext reception.

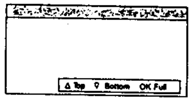

Δ Top ∇ Bottom OK Full

Fig. 36.

TEXT CLEAR

After having selected the function, you can watch a TV programme while waiting for a teletext page to be displayed.
(See Fig. 37.)

Press ⊜ to resume normal teletext mode.

Fig. 37.

REVEAL

Sometimes pages contain concealed information, such as answers to a quiz. The reveal option lets you disclose the information. After having selected the function, an information line »REVEAL ON/OFF« will be displayed. (See Fig. 38.)

Using Δ + or ∇ –, select ON to reveal the information or OFF to conceal it again.
Press ⊜ to resume normal teletext reception.

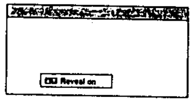

OK Reveal on

Fig. 38.

SUBPAGE

You may want to select a particular teletext page from several subpages which are rotated automatically. If you want to select one subpage, follow the operations below:

1 Using Δ + or ∇ –, select ON for the SUBPAGE setting and press OK.

2 To select the desired subpage, enter four digits using PROGR +/– or the number buttons. (e.g. enter 0002 for the second page of a sequence).

To cancel the request
Select »OFF« for the SUBPAGE setting and press OK.

User Page Bank System

You can store up to 30 pages in the »Teletext page bank system«. In this way you have quick access to the pages you watch frequently.

Storing pages

There are 5 »banks« (A to E) for 5 teletext stations. In each bank you can store 6 preferred pages (1P to 6P).

If two broadcasting stations use the same Teletext
You can preset one bank to 2 different programme positions.

1 Press ⊜ (if Teletext is not on already) and MENU to show the TELETEXT MENÜ display.

2 Select PRESET USER PAGES with Δ + or ∇ – and press OK.

3 Select the desired bank with Δ + or ∇ – and press OK. The cursor will go to the first position (P1) of the preferred pages.

4 Input the three digits of your first preferred page with the number buttons and press OK. The cursor will go to the second position.

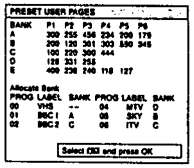
5 Repeat step 4 for the other 5 page numbers you want to preset. If you do not want to preset all 6 page numbers available, press OK without inserting any number.

6 Select »Allocate Bank« with Δ + or ∇ – and press OK.

7 Select the programme position for which you have preset pages with Δ + or ∇ – and press OK. (See Fig. 39).

8 Select the desired bank with Δ + or ∇ – (Banks A to E are available) and press OK.

9 Repeat steps 3 to 8 for the other 4 banks available.



PRESET USER PAGES

BANK	P1	P2	P3	P4	P5	P6
A	300	255	456	234	200	179
B	200	120	301	303	350	345
C	100	220	300	444		
D	125	331	255			
E	400	236	240	118	127	

Allocate Bank

PROG	LABEL	BANK	PROG	LABEL	BANK
00	VHS	--	04	MTV	D
01	BBC 1	A	05	SKY	B
02	BBC 2	C	06	ITV	C

Select OK and press OK

Fig. 39.

Displaying User Pages

1 Select MENU.

2 Select »USER PAGES« with Δ + or ∇ – and press OK.
A table of the stored preferred pages will be displayed.
(See Fig. 40.)

3 Select the desired page with Δ + o ∇ – and press OK.
The page will be displayed after some seconds.

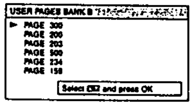

USER PAGES BANK B
PAGE 300
PAGE 200
PAGE 203
PAGE 500
PAGE 234
PAGE 158
Select OK and press OK

Fig. 40.

1-8. CONNECTING AND OPERATING OPTIONAL EQUIPMENT

Connecting Optional Equipment

You can connect optional audio-video equipment to this TV such as VTRs, video disc players, and stereo systems.

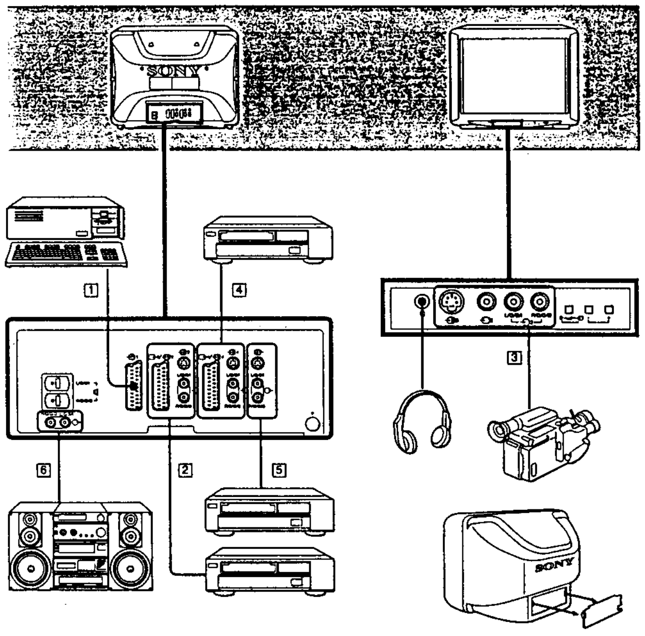
To connect a VTR using the ⊤ terminal
Connect the aerial output of the VTR to the aerial terminal ⊤ of the TV.
We recommend that you tune in the video signal to programme number »0«. For details see »Preset channels manually« on page 9.

If the picture or the sound is distorted
Move the VTR away from the TV.

Note:
After having connected all optional equipment to the TV, attach the supplied cover onto the rear panel (See illustration at the right).

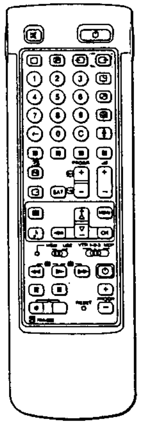
S video input (Y/C input)
Video signals may be separated into Y (luminance or brightness) and C (chrominance) signals. Separating the Y and C signals prevents them from interfering with one another, and therefore improves picture quality (especially luminance).
This TV is equipped with 3 S Video input jacks throught which these separated signals can be input directly.

When connecting a monaural VTR
Connect only the white ⊖ jack to both the TV and VTR.



Acceptable input signal	Available output signal
1 Normal audio/video and RGB signal	Video/audio from TV tuner
2 Normal audio/video and S video signal	Video/audio from selected source
3 Normal audio/video and S video signal	No outputs
4 Normal audio/video and S video signal	Video/audio displayed on TV screen (monitor out)
5 No inputs	S video/audio signal displayed on TV screen (monitor out)
6 No inputs	Audio signal (variable)

Selecting input with PROGR +/- or number buttons
You can preset video input sources to the programme positions so that you can select them with PROGR +/- or number buttons. For details, see »Preset channels manually« on page 9.



Selecting input and output

This section explains how to view the video input picture (of the video source connected to your TV), and how to select the output signal using direct access buttons or the menu system.

Selecting input

Press ⊖ repeatedly to select the input source.
The symbol of the selected input source will appear.

⊖ 1

To go back to the normal TV picture
Press ○.

Input modes

Symbol	Input signal
⊖ 1	Audio/video input through the ⊸ 1 connector
⊸	RGB input through the ⊸ 1 connector
⊖ 2	Audio/video input through the ⊳ 2 / ⊜ 2 connector
⊜ 2	S video input through the ⊳ 2 / ⊜ 2 or ⊜ 2 connector
⊖ 3	Audio/video input through ⊖ 3 and ⊖ on the front
⊜ 3	S video input through the ⊜ 3 connectors on the frontv (4-pin connector)
⊖ 4.	Audio/video input through the ⊳ 4 / ⊜ 4 connector
⊜ 4	S video input through the ⊳ 4 / ⊜ 4 or ⊜ 4 connector (4-pin connector)

You can also select the input mode using the P→⊿→⊖ and –/+ buttons on the TV.

In this case, first select ⊖, and then press –/+ buttons to select the input.

Selecting the output

The ⊳ 2 / ⊜ 2 connector outputs the source input from the other connectors.

Press ⊳ repeatedly to select the output.
The symbol of the selected output source appears.

1 ⊳

Output modes

Symbol	⊳ 2 / ⊜ 2 connector outputs
1 ⊳	The audio/video signal from the ⊸ 1 connector
2 ⊳	The audio/video signal from the ⊳ 2 / ⊜ 2 connector
2 ▶	The audio/S video signal from the ⊳ 2 / ⊜ connector
3 ⊳	The audio/video signal from the ⊖ 3 e ⊖ 3 connectors
3 ▶	The audio/S video signal from the ⊜ 3 e ⊖ 3 connectors
4 ⊳	The audio/video signal from the ⊳ 4 / ⊜ 4 connector
4 ▶	The audio/S video signal from the ⊳ 4 / ⊜ 4 connector
TV ⊳	The audio/video signal from the ⊤ aerial terminal

Checking and selecting the input and output sources using the menu

You can display the menu to see which input sources are selected for the TV screen and PIP screen, and which output source is selected. You can also select them on the menu display.

1 Select »Video Connection« with Δ + o ∇ – and press OK. The VIDEO CONNECTION menu appears. (See Fig. 41).
You can see which source is selected for the TV and PIP input, and for the output. If you want to select the input and output on this menu, go on to the next step.

2 Select TV screen (input source for the TV screen), PIP (input source for the PIP screen), or Output (output source) with Δ + or ∇ – and press OK. One of the source items changes colour. (See Fig. 42.)

3 Select the desired source with Δ + o ∇ –. (See Fig. 43.)
For details about each source, see the table on page 22.

4 Press OK.
The selected source is confirmed, and the cursor appears. (See Fig. 44.)

5 Repeat steps 2 to 4 to select the source for other inputs or outputs.

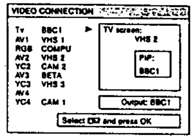


Fig. 41.

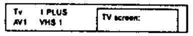


Fig. 42.

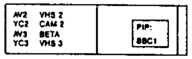


Fig. 43.

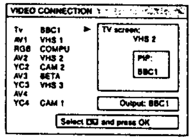
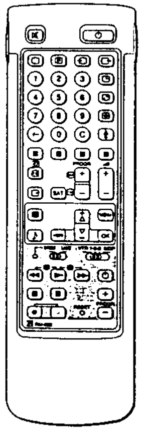


Fig. 44.



When recording
When you use the ● (record) button, make sure to press this button and the one to the right of it simultaneously.

- Do not move the Remote Commanders during programming.
- After programming, check to see if all the programmed functions work. It may be the case, that a function cannot be programmed.
- **When you want to operate the audio or video equipment**
  Make sure that the VTR 1/2/3 MDP selector is set to the position you used during programming.
- When you replace the Remote Commander batteries, the programmed functions remain stored for 30 minutes without a battery.
- When the memory of the programmable Remote Commander is full, the MEM indicator lights up.

Remote Control of Other Equipment

You can use the TV Remote Commander to control other remote-controlled equipment. The buttons for video operation have been factory-set to control most of Sony video equipment, such as: Beta, 8mm or VHS VTRs or video disc players.
Additionally you can programme these buttons to control also audio and video equipment of other manufacturers.

Tuning the Remote Commander to Sony equipment

1 Set the VTR 1/2/3 MDP selector according to the equipment you want to control:

VTR 1: Beta or ED Beta VTR
VTR 2: 8mm VTR
VTR 3: VHS VTR
MDP: Video disc player

2 Use the buttons indicated in the illustration to operate the additional equipment.
If your video equipment is furnished with a COMMAND MODE selector set this selector to the same position as the VTR 1/2/3 MDP selector on the TV Remote Commander.
If the equipment does not have a certain function, the corresponding button on the Remote Commander will not operate.

Tuning the Remote Commander to audio or video equipment of other manufacturers

Your TV Remote Commander is a programmable Remote Commander. This means that you can programme the buttons indicated in the illustration with functions of other Remote Commanders. A function can be stored on any of the buttons and on all four levels of the VTR 1/2/3 MDP selector.

Programming a function

1 Set the MEM/USE switch to MEM (memorize).

2 Set the VTR 1/2/3 MDP selector to the desired position.

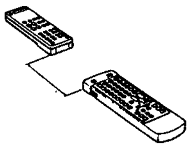
3 Position the two Commanders head to head (see illustration).

4 First press the button on the TV Remote Commander onto which you want to programme a function. Now the MEM indicator on the Remote Commander lights up.

5 Then press the button on the other Remote Commander, the function of which you want to programme. As soon as the MEM indicator goes out, the function is stored.

6 Repeat steps 4 and 5 for all other functions you want to programme. When you have programmed all buttons on one level of the VTR 1/2/3 MDP selector, select another level.

7 When you have finished programming, set the MEM/USE switch to USE.



Clearing programmed functions

1 Set the MEM/USE switch to MEM.

2 Set the VTR 1/2/3 selector to the level of functions you want to clear.

3 Press any of the programmable buttons. Now the MEM indicator lights up.

4 Keep the RESET button pressed, using the tip of a pen, until the MEM indicator has flashed four times. Now all programmed functions on this level are cleared.

5 Reset the MEM/USE switch to USE.

1-9. FOR YOUR INFORMATION

Troubleshooting

Here are some simple solutions to problems which may affect the picture and sound.

Problem	Solution
No picture (screen is dark), no sound	• Plug the TV in. • Press ⌽ on the TV. (If ⏻ indicator is on, press ○ or a programme number on the Remote Commander.) • Check the aerial connection. • Check if the selected video source is on. • Turn the TV off for 3 or 4 seconds and then turn it on again using ⌽.
Poor or no picture (screen is dark), but good sound	• Press ■ to enter the PICTURE CONTROL menu and adjust »Brightness«, »Contrast« and »Colour«.
Good picture but no sound	• Press ◿+. • If 🔇 is displayed on the screen, press 🔇.
No colour for colour programmes	• Press ■ to enter the PICTURE CONTROL menu, select »Reset«, then press OK.
Remote Commander does not function	• The batteries are weak. • Set the MEM/USE switch to USE.

If you continue to have problems, have your TV serviced by qualified personnel. Never open the casing yourself.

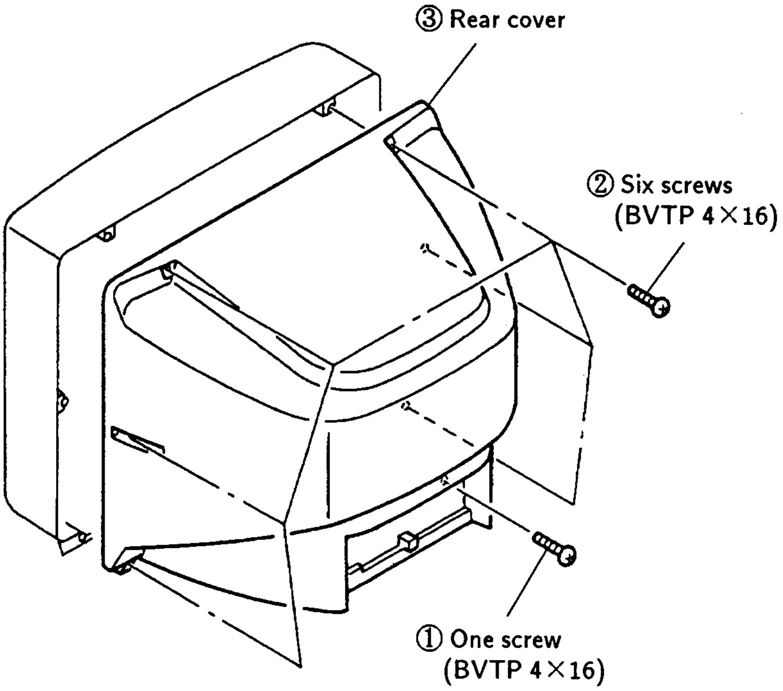
Television Channel Number Guide

Only the main transmitters are listed. Information regarding the regional sub-relay channel numbers can be obtained by contacting
The BBC Engineering Information Dept. (081) 752 5040.

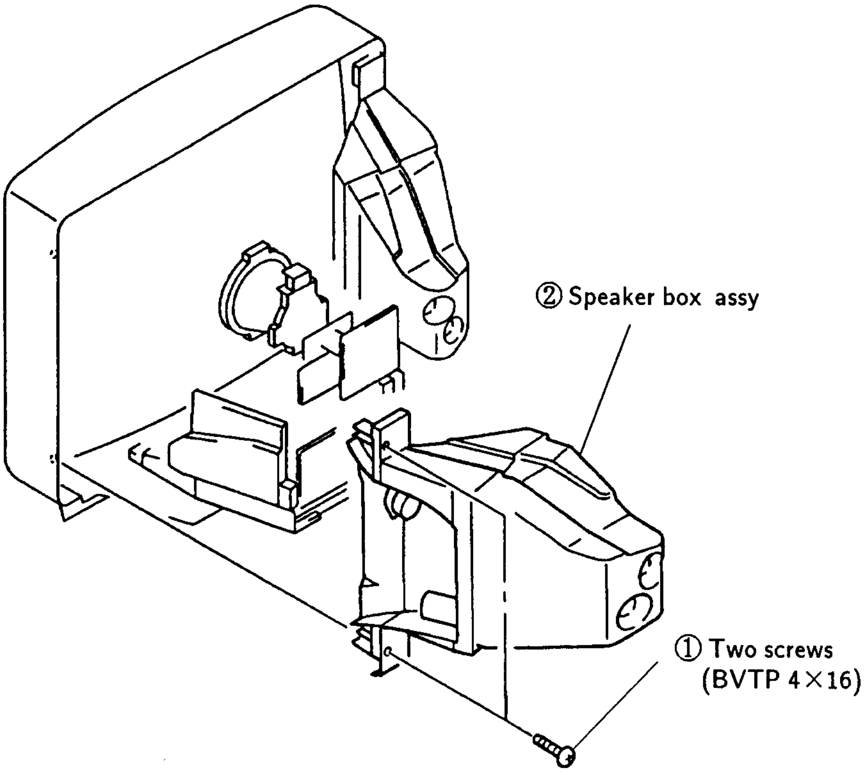
MAIN TRANSMITTERS	BBC1	BBC2	ITV	CH4
London & South East				
Bluebell Hill	40	46	43	65
Crystal Palace	26	33	23	30
Dover	50	56	66	53
Heathfield	49	52	64	67
Oxford	57	63	60	53
South-West				
Beacon Hill	57	63	60	53
Caradon Hill	22	28	25	32
Huntshaw Cross	55	62	59	65
Redruth	51	44	41	47
Stockland Hill	33	26	23	29
Channel Islands				
Fremont Point	51	44	41	47
South				
Hannington	39	45	42	66
Midhurst	61	55	58	68
Rowridge	31	24	27	21
West				
Mendip	58	84	61	54
East				
Sandy Heath	31	27	24	21
Sudbury	51	44	41	47
Tacoineston	62	55	59	65
Midlands				
Ridge Hill	22	28	25	32
Sutton Coldfield	46	40	43	50
The Wrekin	26	33	23	29
Wakham	56	64	61	54
Northern Ireland				
Brougher Mountain	22	28	25	32
Divis	31	27	24	21
Limavady	55	62	59	65
North				
Belmont	22	29	25	32
Emley Moor	44	51	47	41
North-West				
Winter Hill	55	62	59	65
Douglas (IOM)	68	66	48	56
North-East				
Bilsdale West Moor	33	26	29	23
Caldbeck	30	34	28	32
Chatton	39	45	49	42
Pontop Pike	56	64	61	54
Laxey (IOM)	58	64	61	54
Scotland				
Angus	57	63	60	53
Black Hill	40	46	43	50
Sandale	22	–	–	–
Caldbeck	–	34	28	32
Craigkelly	31	27	24	21
Darvel	33	26	23	29
Durris	22	28	25	32
Eitshal	33	26	23	29
Keelylang Hill	40	46	43	50
Knock More	33	26	23	29
Rosemarkie	39	45	49	42
Rumster Forest	31	27	24	21
Selkirk	55	62	59	65
Wales				
Blaenplwyf	31	27	24	21
Carmel	57	63	60	53
Llanddona	57	63	60	53
Moel-y-Parc	52	45	49	42
Presely	46	40	43	50
Wenvoe	44	51	41	47

SECTION 2
DISASSEMBLY

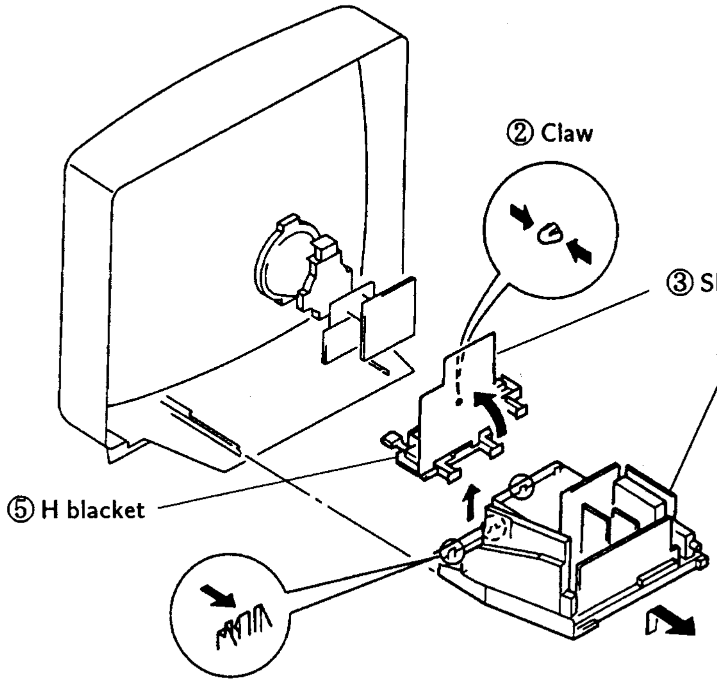
2-1. REAR COVER REMOVAL


③ Rear cover
② Six screws
(BVTP 4×16)
① One screw
(BVTP 4×16)

2-2. SPEAKER REMOVAL


② Speaker box assy
① Two screws
(BVTP 4×16)

2-3. CHASSIS ASSY REMOVAL

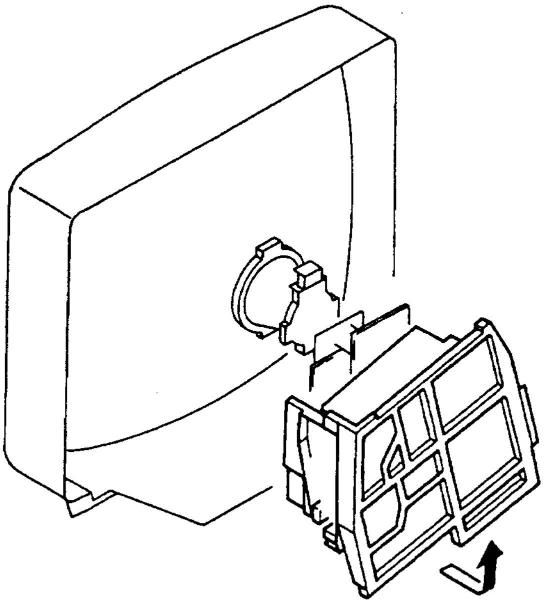


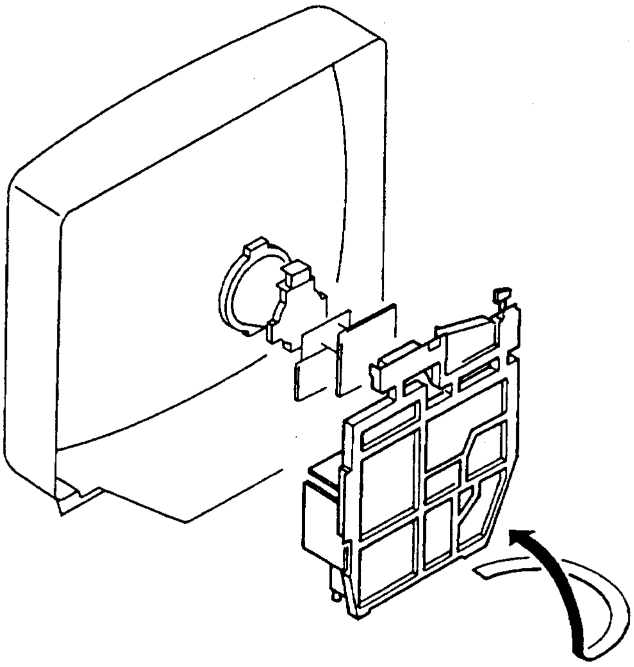
① After the assy of the chassis, lift and pull out the rear part of the chassis toward the rear.

④ Push the three claws of the chassis in the direction of the arrow and remove the H bracket upwards.

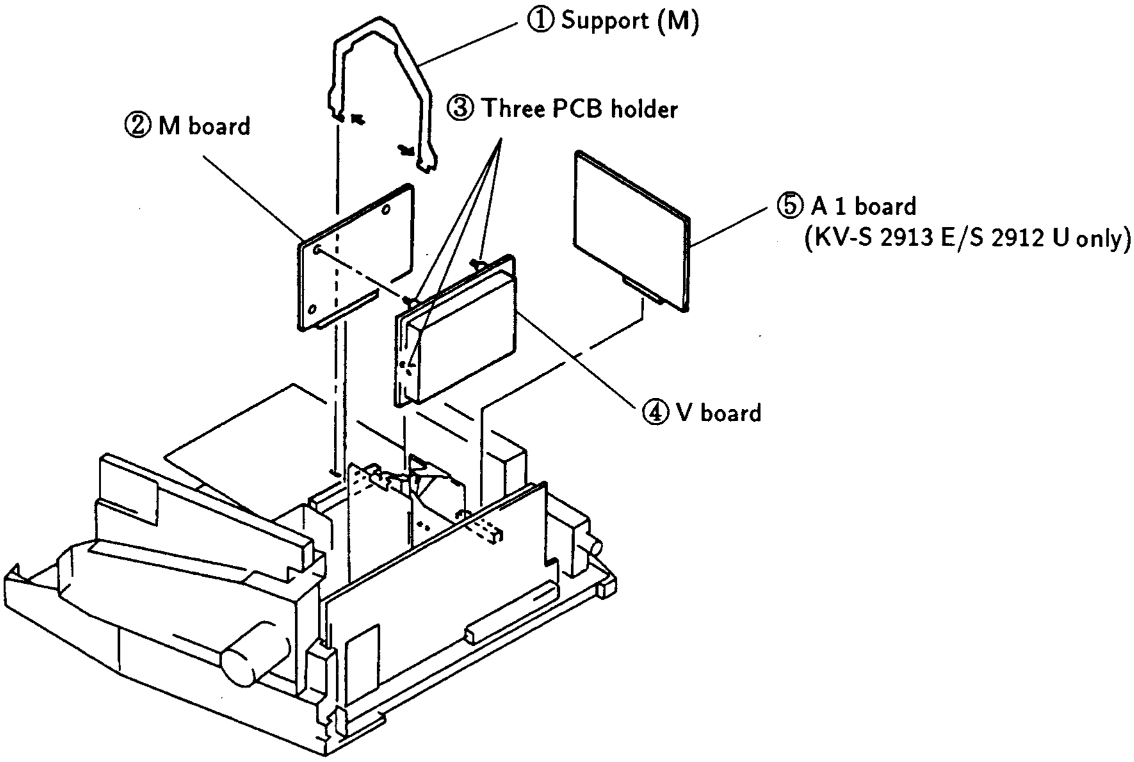
2-4. SERVICE POSITION

※ Remove the H bracket from the chassis assy and then perform the following servicing.
(Refer to 2-3. CHASSIS ASSY REMOVAL)

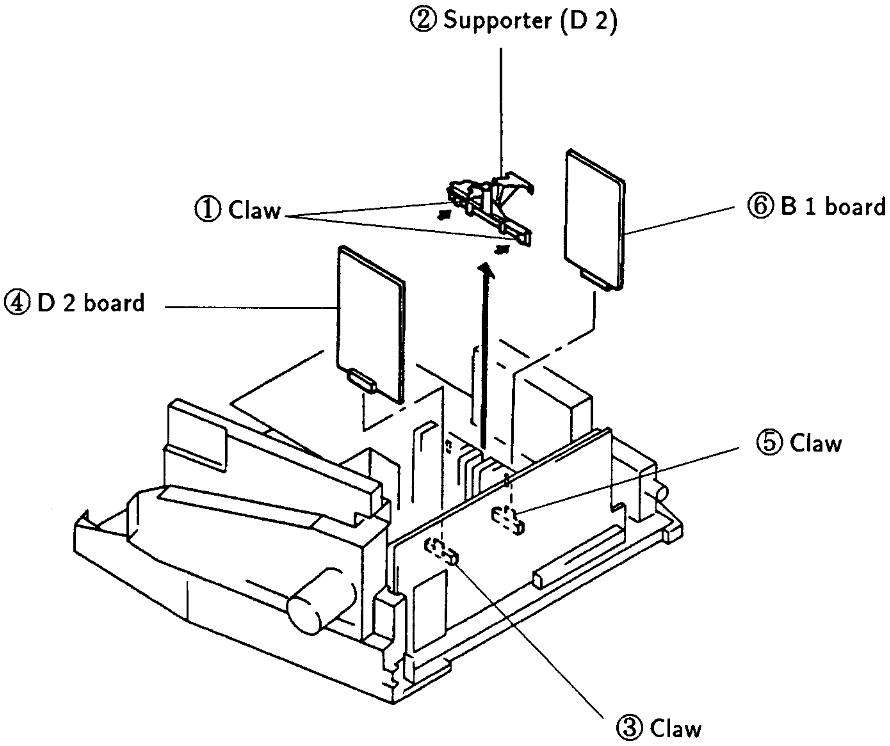




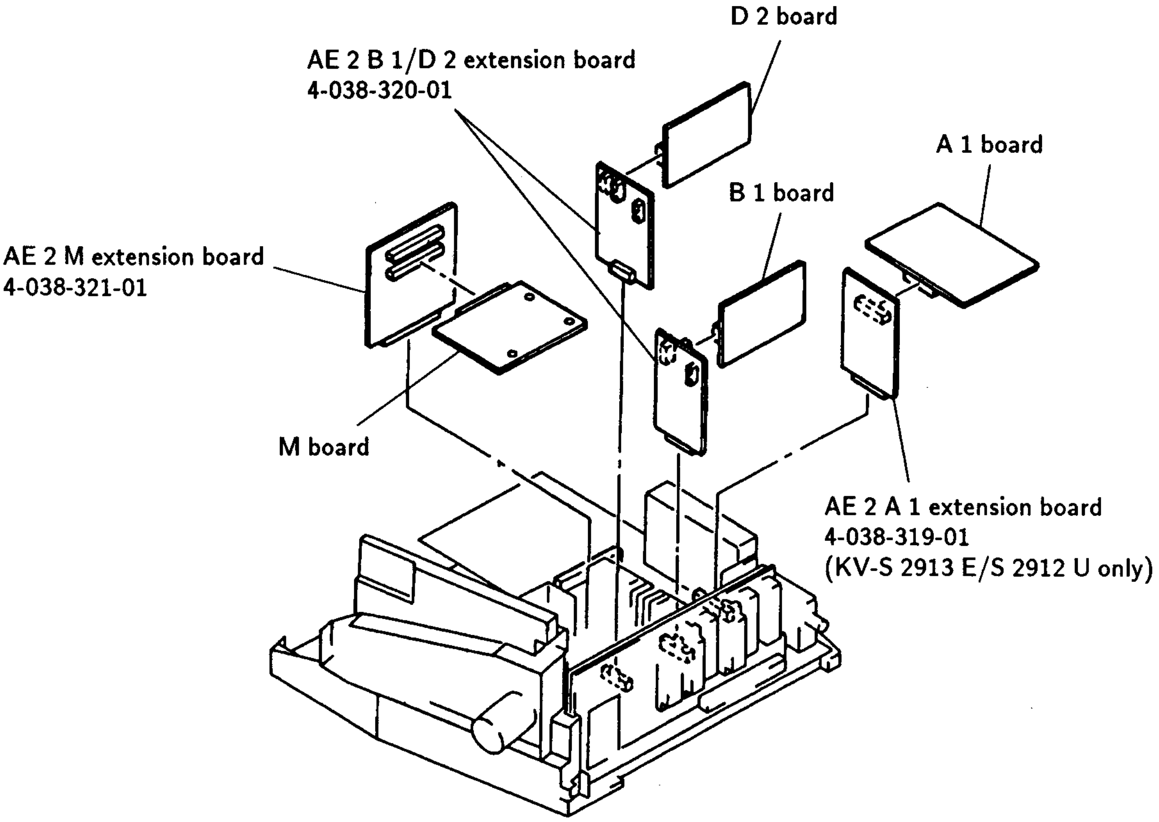
2-5. M, V AND A 1 BOARDS REMOVAL


① Support (M)
② M board
③ Three PCB holder
⑤ A 1 board
(KV-S 2913 E/S 2912 U only)
④ V board

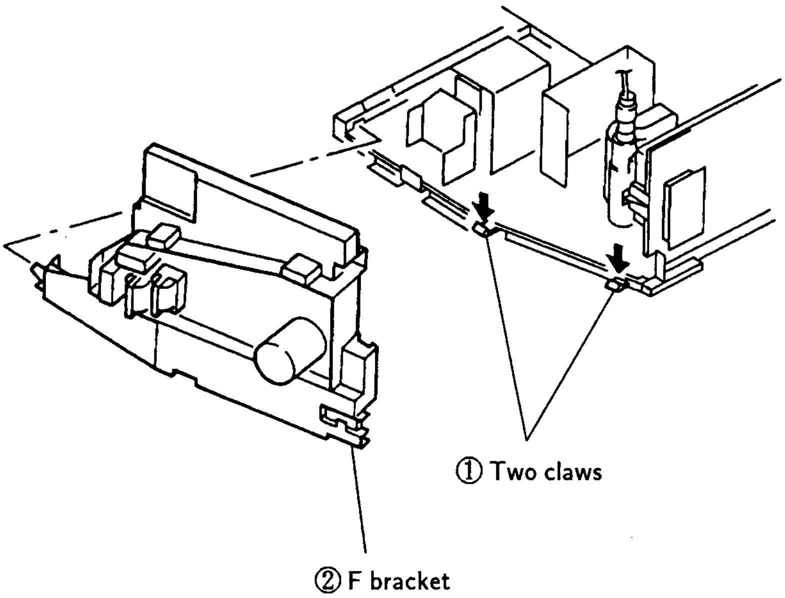
2-6. D 2 AND B 1 BOARDS REMOVAL


② Supporter (D 2)
① Claw
⑥ B 1 board
④ D 2 board
⑤ Claw
③ Claw

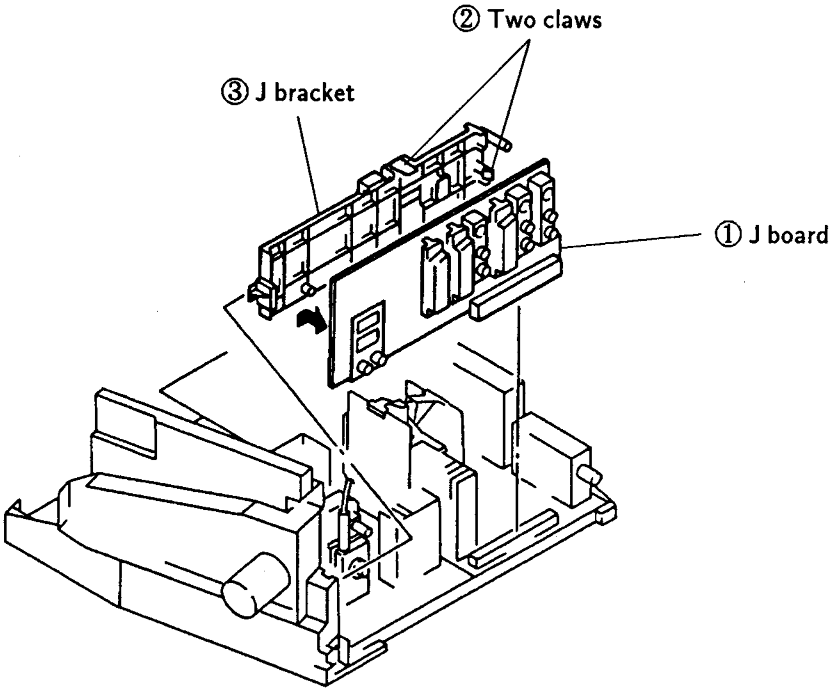
2-7. EXTENSION BOARD


D 2 board
AE 2 B 1/D 2 extension board
4-038-320-01
A 1 board
B 1 board
AE 2 M extension board
4-038-321-01
M board
AE 2 A 1 extension board
4-038-319-01
(KV-S 2913 E/S 2912 U only)

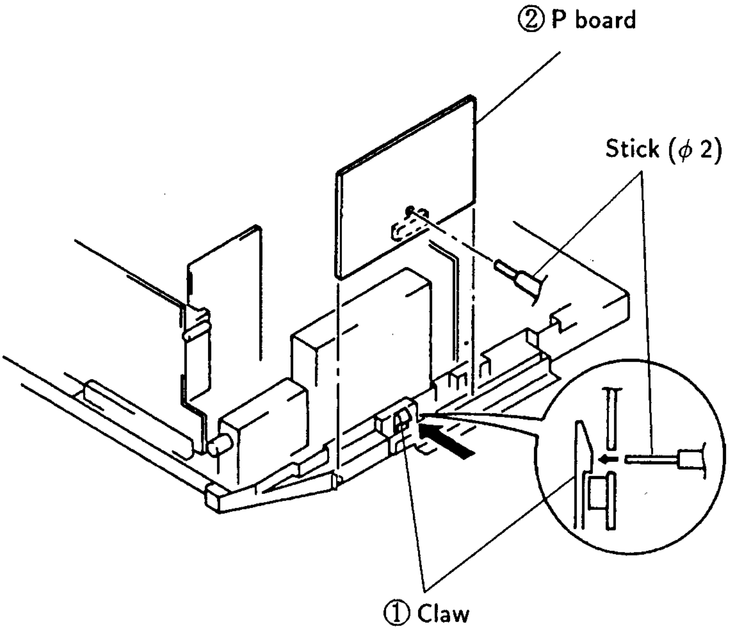
2-8. F BRACKET REMOVAL


① Two claws
② F bracket

2-9. J BOARD REMOVAL

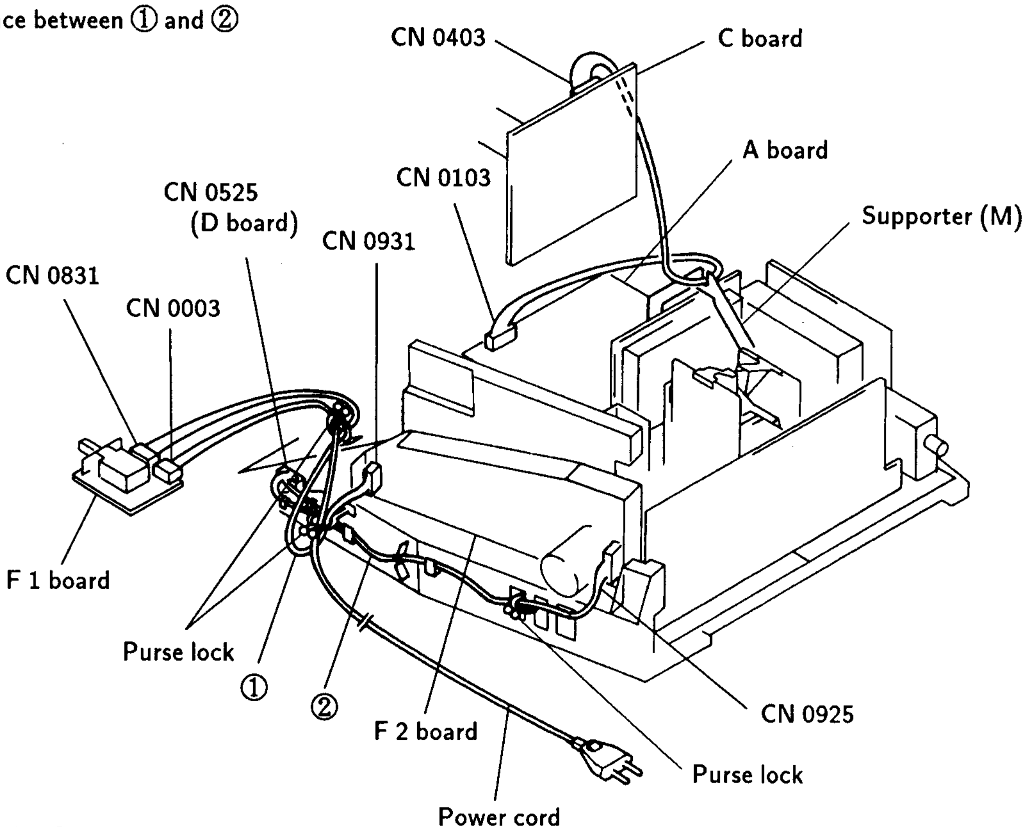

② Two claws
③ J bracket
① J board

2-10. P BOARD REMOVAL

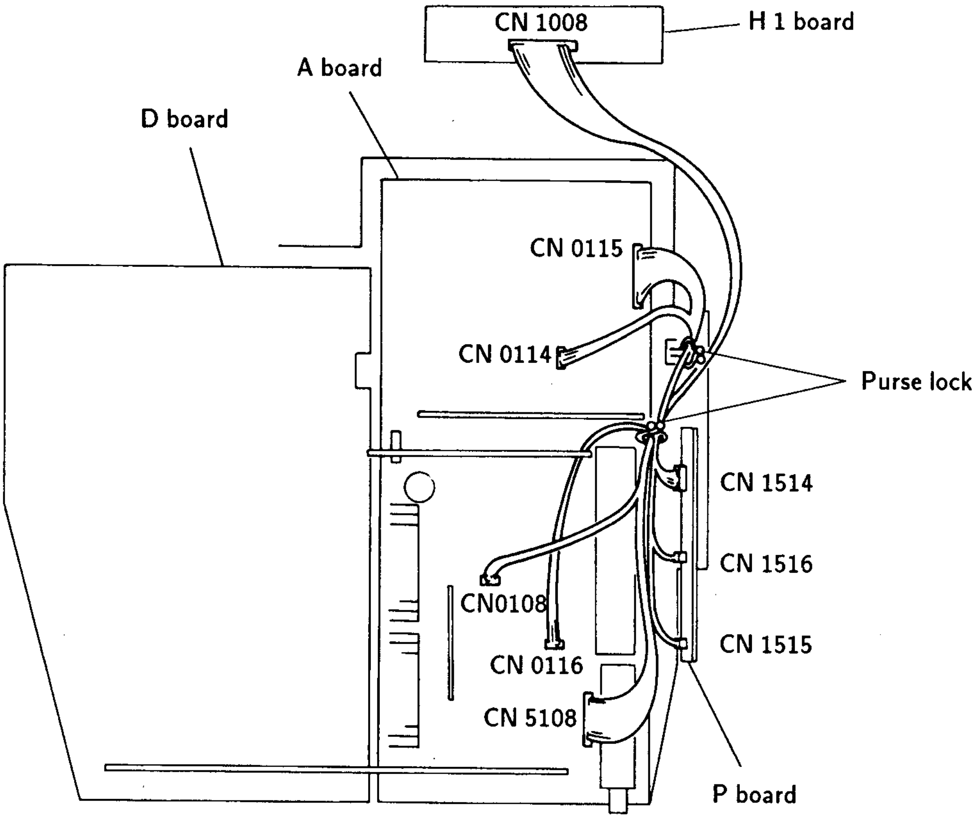

② P board
Stick (ϕ 2)
① Claw

2-11-1. WIRE ROD

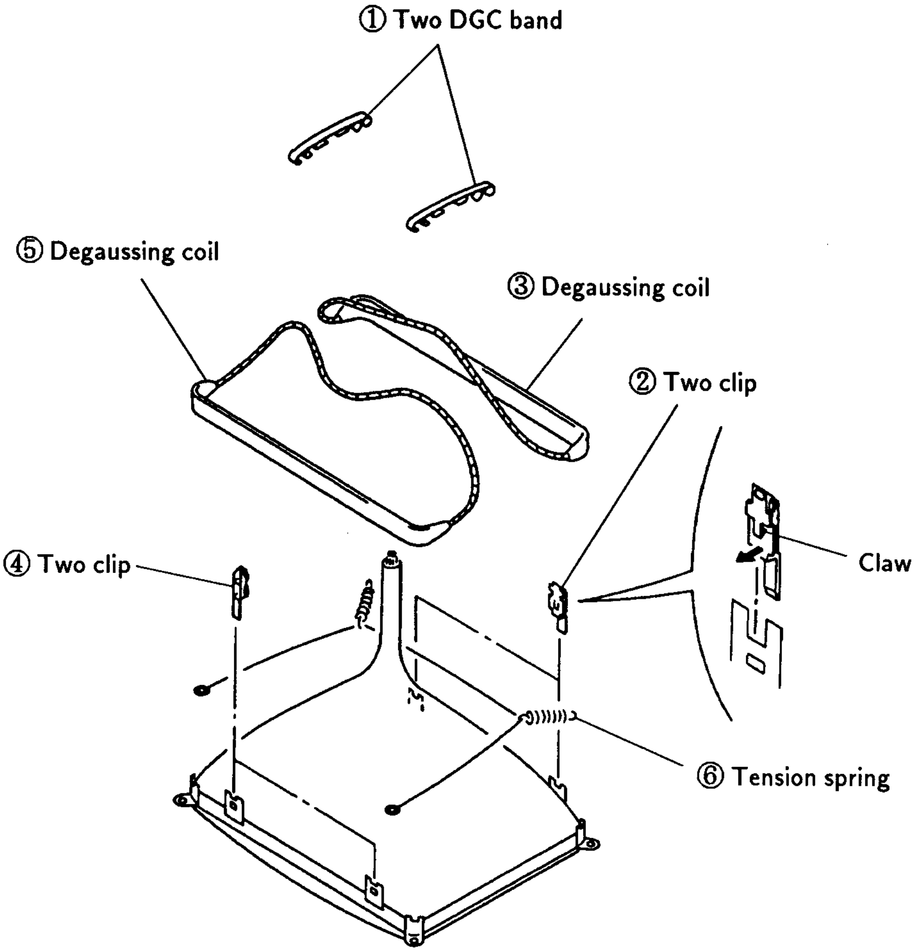
※ Keep distance between ① and ②


CN 0403
C board
A board
CN 0103
Supporter (M)
CN 0525
(D board)
CN 0931
CN 0831
CN 0003
F 1 board
Purse lock
①
②
F 2 board
CN 0925
Purse lock
Power cord

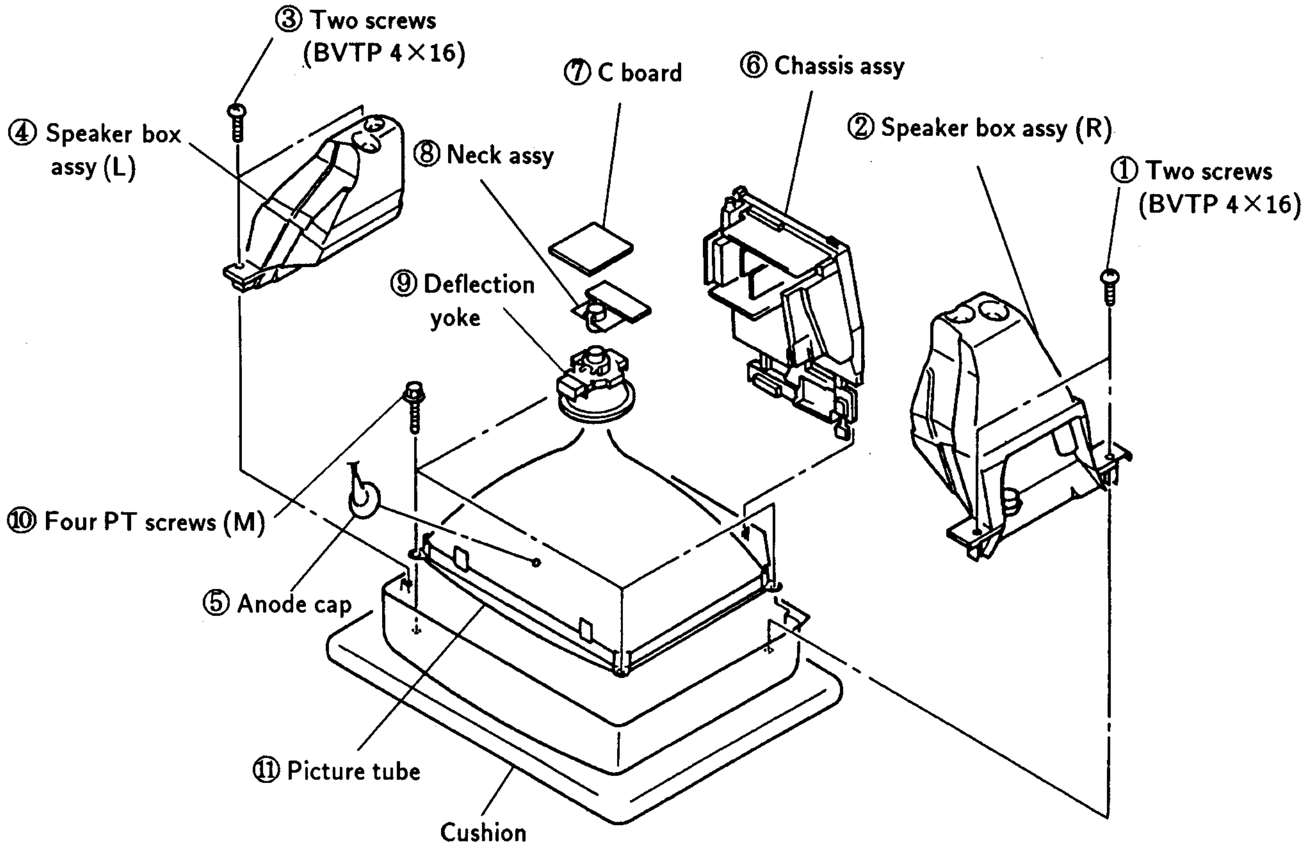
2-11-2. WIRE ROD


CN 1008
H 1 board
A board
D board
CN 0115
CN 0114
Purse lock
CN 1514
CN 1516
CN0108
CN 1515
CN 0116
CN 5108
P board

2-12. DEGAUSSING COIL REMOVAL


① Two DGC band
⑤ Degaussing coil
③ Degaussing coil
② Two clip
Claw
④ Two clip
⑥ Tension spring

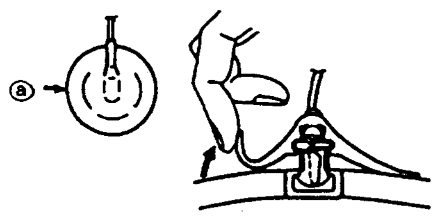
2-13. PICTURE TUBE REMOVAL


③ Two screws
(BVTP 4×16)
⑦ C board
⑥ Chassis assy
④ Speaker box
assy (L)
⑧ Neck assy
② Speaker box assy (R)
① Two screws
(BVTP 4×16)
⑨ Deflection
yoke
⑩ Four PT screws (M)
⑤ Anode cap
⑪ Picture tube
Cushion

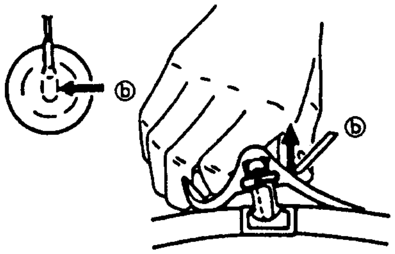
• REMOVAL OF ANODE-CAP

NOTE : Short circuit the anode of the picture tube and the anode cap to the metal chassis, CRT chield or carbon painted on the CRT, after removing the anode.

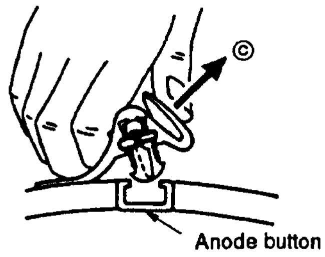
• REMOVING PROCEDURES



① Turn up one side of the rubber cap in the direction indicated by the arrow ⓐ.



② Using a thumb pull up the rubber cap firmly in the direction indicated by the arrow ⓑ.


ⓒ
Anode button

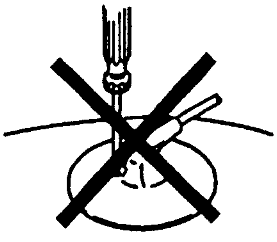
③ When one side of the rubber cap is separated from the anode button, the anode-cap can be removed by turning up the rubber cap and pulling up it in the direction of the arrow ⓒ.

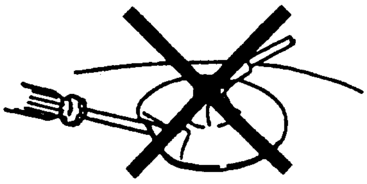
• HOW TO HANDLE AN ANODE-CAP

① Don't hurt the surface of anode-caps with sharp shaped material!

② Don't press the rubber hardly not to hurt inside of anode-caps!
A material fitting called as shatter-hook terminal is built in the rubber.

③ Don't turn the foot of rubber over hardly!
The shatter-hook terminal will stick out or hurt the rubber.





SECTION 3
SET-UP ADJUSTMENTS

- When complete readjustment is necessary or a new picture tube is installed, carry out the following adjustments.
- Unless there is specific instruction to the contrary, carry out these adjustments with the rated power supply.
- Unless there is specific instruction to the contrary, set the controls and switches this way :

◑ Contrast .... 80% (or remote control normal)
☼ Brightness 50%

- Carry out the following adjustments in this order :

1. Beam landing
2. Convergence
3. Focus
4. White balance

Note: Testing equipment required.

1. Color bar/pattern generator
2. Degausser
3. DC power supply
4. Digital multimeter
5. Oscilloscope

Preparations:

- In order to reduce the influence of geomagnetism on the set's picture tube face it east or west.
- Switch on the set's power and degauss with the degausser.

3-1. BEAM LANDING

1. Input the white signal with the pattern generator.
   Contrast } normal
   Brightness }
2. Position neck assy as shown in Fig.3-2.
3. Set the pattern generator raster signal to red.
4. Move the deflection yoke to the rear and adjust with the purity control so that the red is at the center and the blue and the green take up equally sized areas on each side. (See Fig.3-1 - 3-3)
5. Move the deflection yoke forward and adjust so that entire screen is red. (See Fig.3-1)
6. Switch the raster signal to blue, then to green and verify the condition.
7. When the position of the deflection yoke has been decided, fasten the deflection yoke with the screws.
8. If the beam does not land correctly in all the corners, use a magnet to adjust it. (See Fig.3-4)

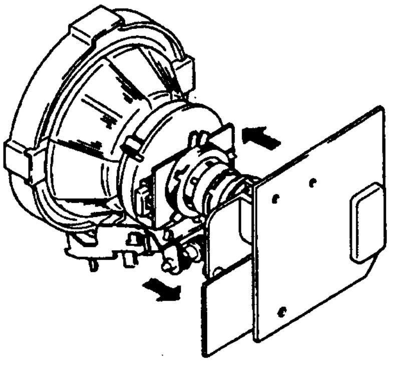


Fig.3-1

Fig.3-2

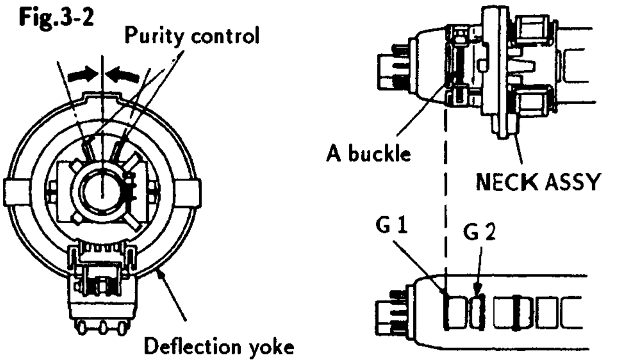
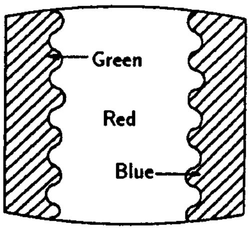

Purity control
A buckle
NECK ASSY
G1
G2
Deflection yoke

Fig.3-3


Green
Red
Blue

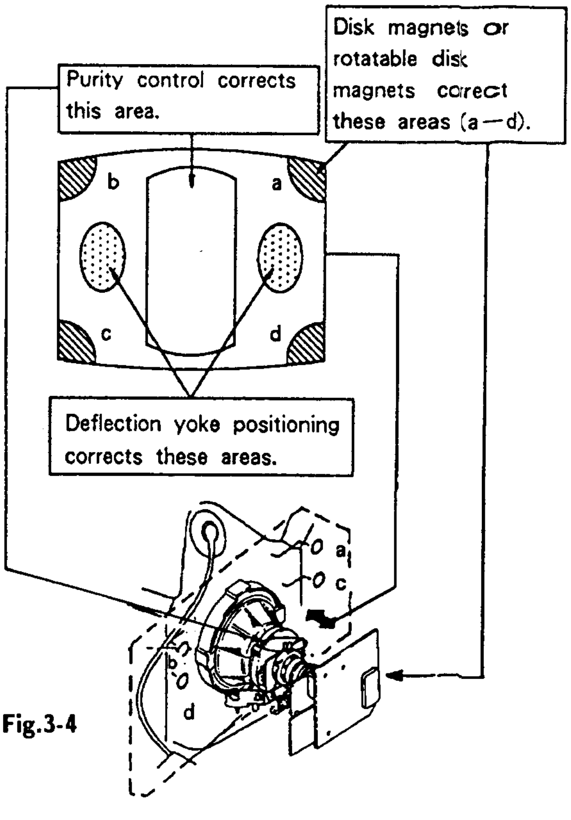

Disk magnets or rotatable disk magnets correct these areas (a—d).
Purity control corrects this area.
b
a
c
d
Deflection yoke positioning corrects these areas.
a
c
b
d

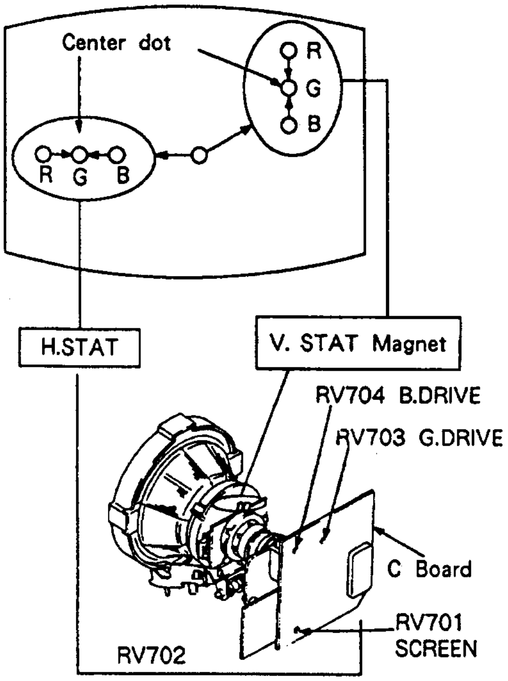
Fig.3-4

3-2. CONVERGENCE

Preparations :

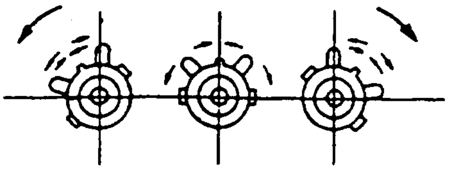
- Before starting this adjustment, adjust the focus, horizontal size, and vertical size.
- Minimize the brightness setting.
- Provide dot pattern.

(1) Horizontal and vertical static convergence


Center dot
R
G
B
R G B
H.STAT
V. STAT Magnet
RV704 B.DRIVE
RV703 G.DRIVE
C Board
RV701
SCREEN
RV702

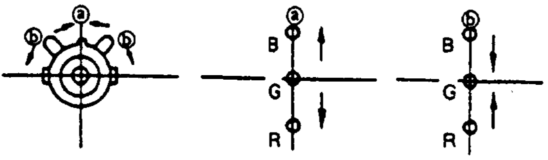
1. (Moving horizontally), adjust the H.STAT control so that the red, green, and blue points are on top of each other at the center of the screen.
2. (Moving vertically), adjust the V.STAT magnet so that the red, green, and blue points are on top of each other at the center of the screen.
3. If the H.STAT variable resistor cannot bring the red, green, and blue points together at the center of the screen, adjust the horizontal convergence with the H.STAT variable resistor and the V. STAT magnet in the manner given below.
(In this case, the H.STAT variable resistor and the V.STAT magnet influence each other)

- Tilt the V.STAT magnet and adjust the static convergence by opening or closing the V.STAT magnet.

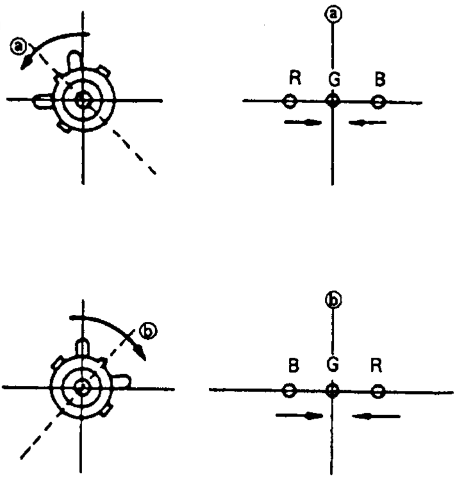


4. If the V.STAT magnet is moved in the direction of the ⓐ and ⓑ arrows, the red, green, and blue points move as shown below.

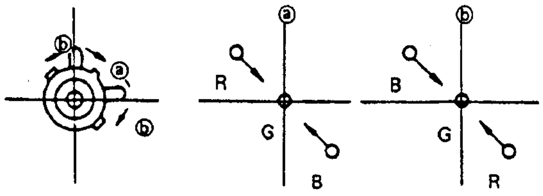
①



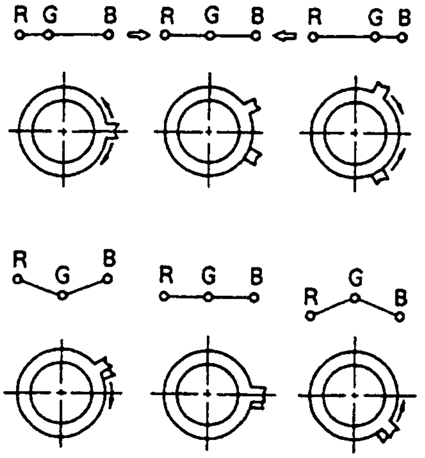
②

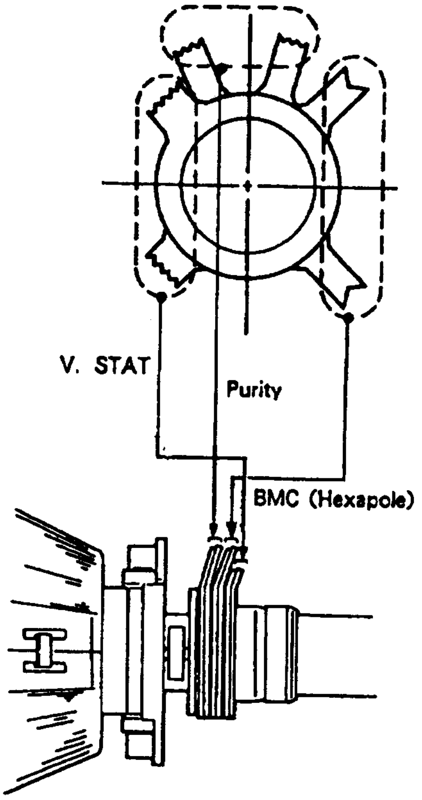


③



- Operation of BMC (Hexapole) Magnet


R G B
R G B
R G B
R G B
R G B
R G B


V. STAT
Purity
BMC (Hexapole)

- The respective dot positions resulting from moving each magnet interact, so be sure to perform adjustment while tracking.

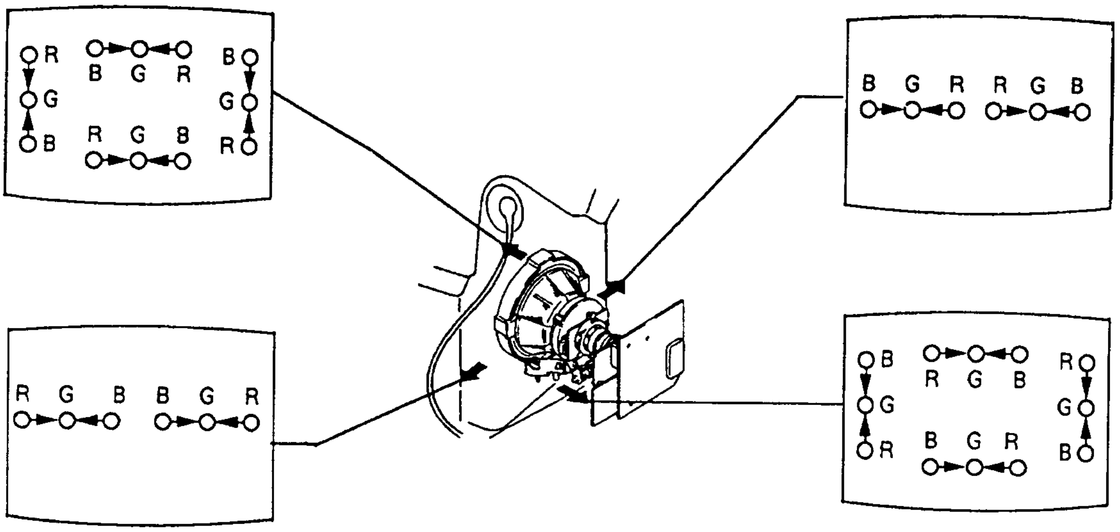
  Use the H.STAT VR to adjust the red, green, and blue dots so they coincide at the center of screen (by moving the dots in the horizontal direction).

(2)Dynamic convergence adjustment

Preparations :

- Before starting this adjustment, adjust the horizontal static convergence and the vertical static convergence.

1. Slightly loosen the deflection yoke screws.
2. Remove the deflection yoke spacer.
3. Move the deflection yoke as shown in the figure below and optimize the convergence.
4. Tighten the deflection yoke screws.
5. Install the deflection yoke spacer.


R G B
B G R
R G B
B G R
R G B
R G B
B G R B G R
R G B R G B
B G R
R G B
B G R
R G B
R G B
B G R

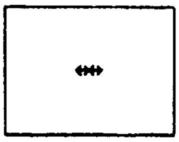
(2)Dynamic convergence adjustment

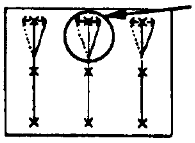
1. Adjust horizontal convergence located at the center position of the screen with H STAT VR.
2. Enter into service mode. (Refer to the section 2 “Electrical Adjustment” on how to enter service mode.)
3. Select CXA 1526 on menu.
4. Select each item and adjust them so that each item attains optimal convergence.
5. Press [OK] button to write the data.

CXA 1526

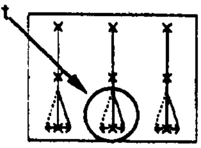
1	DC SHIFT	(32)
2	UPPER Y BOW	(4)
3	LOWER Y BOW	(5)
4	H AMP	(48)
5	H TILT	(29)
6	UPPER COR BOW	(32)
7	UPPER TILT	
8	LOWER COR BOW	(32)
9	LOWER TILT	(32)

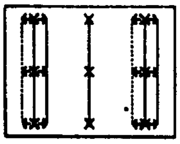
R.G.B.dots movement on the screen of the set

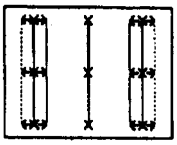

DC SHIFT
Fine adjustment of H STAT

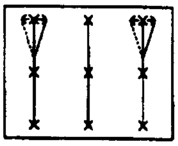


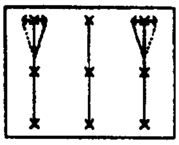
UPPER Y BOW
Adjustment of Y BOW of the upper section of the screen.

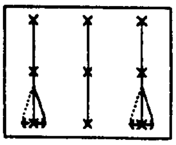

LOWER Y BOW
Adjustment of Y BOW of the lower section of the screen.

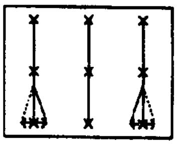

H AMP
H AMP adjustment


H TILT
H TILT adjustment


UPPER COR BOW
Adjustment of C BOW of the upper section of the screen.


UPPER TILT
Adjustment of TILT of the upper section of the screen.

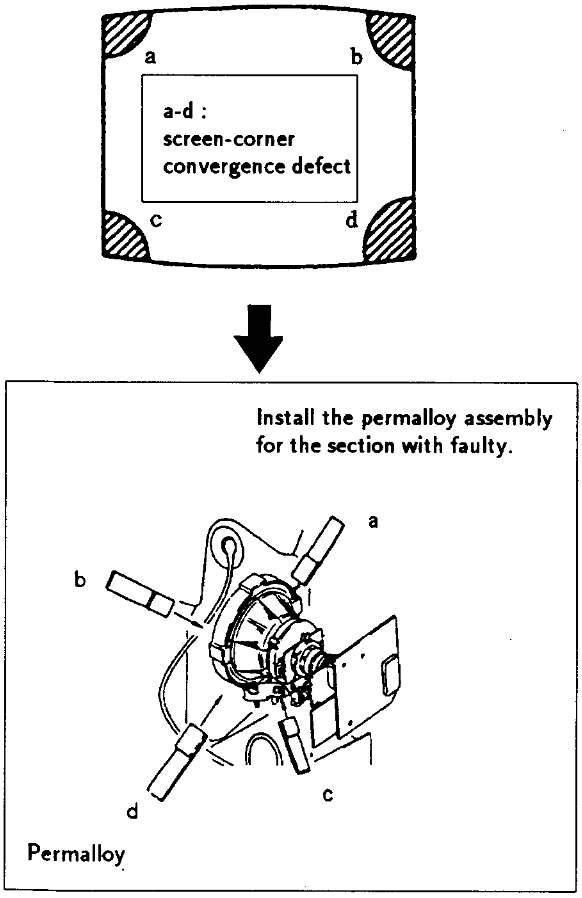

LOWER COR BOW
Adjustment of C BOW of the lower section of the screen.


LOWER TILT
Adjustment of TILT of the lower section of the screen.

At this time, H.TILT, H.AMP, UPPER TILT, UPPER COR, BOW, LOWER TILT, and LOWER COR, BOW look like all the same, but the movement of the right and left dots are reverse in all the TILT system. (Pay attention to the dotted lines.)

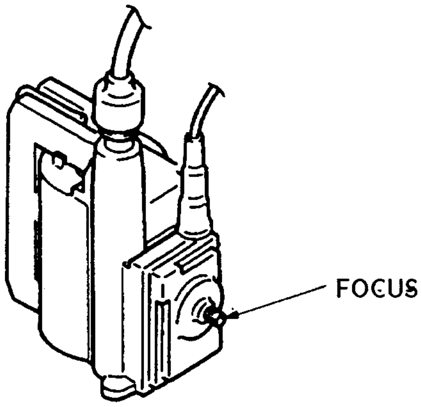
(4) Screen corner convergence

If you cannot adjust corner convergence properly, correct them with permalloy.



3-3. FOCUS

Adjust the focus to optimize the screen.



3-4. WHITE BALANCE

Screen G2 Setting

1. Input the dot signal from the pattern generator.
2. Set the picture brightness control to its lowest level.
3. Apply 180V DC to the R,G, and B cathodes with an external power supply.
4. While watching the picture, adjust G 2 control RV 701 (Screen) to the point just before the return lines disappear.

White balance adjustment

1. Receive all-white signal.
2. Enter into service mode. (Refer to the section 4 "Electrical Adjustment" to how to enter service mode.)
3. Select CXA 1587 on menu.

09	SUB BRIGHT	ADJ.
10	SUB HUE	7
11	VM LEVEL	2
12	NR LEVEL	0
13	ABL MODE	0
14	G-DRIVE	ADJ.
15	B-DRIVE	ADJ.
16	G-AUTO CUT OFF	ADJ.
17	B-AUTO CUT OFF	ADJ.
18	R-MANUAL CUT OFF	ADJ.
19	G-MANUAL CUT OFF	ADJ.
20	B-MANUAL CUT OFF	ADJ.

4. Set picture to MAX.
5. Adjust G-DRIVE B-DRIVE with ▲, ▼ buttons so that the white balance becomes optimum.
6. Press OK button to write the data for each item.
7. Set picture to MIN.
8. Adjust G-AUTO CUT OFF, B-AUTO CUT OFF, R-MANUAL CUT OFF, G-MANUAL CUT OFF and B-MANUAL CUT OFF with ▲, ▼ buttons so that the white balance becomes optimum.
9. Press OK button to write the data for each item.

SECTION 4
CIRCUIT ADJUSTMENTS

4-1. ELECTRICAL ADJUSTMENTS

Service adjustment to this model can be performed with the supplied remote commander, RM-832.

HOW TO ENTER INTO SERVICE MODE

1. Turn on the main power switch of the set while pressing any two buttons on the front panel.

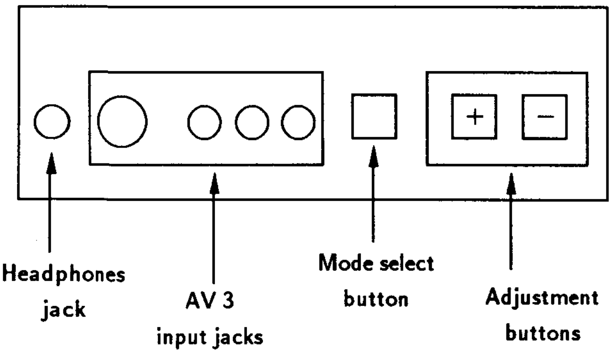


Fig.4-1

2. "TT" will appear on the upper right corner of the screen.

Command operation in service mode

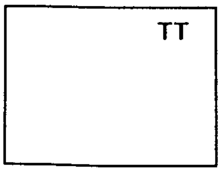
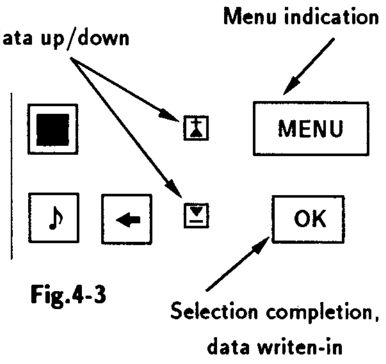


Fig.4-2



Item selection, data up/down
Menu indication
MENU
OK
Selection completion, data writen-in

Fig.4-3

3. Press the MENU button of the commander to get the menu on screen.

MAIN MENU

Programme Table
Video Connection
Timer
Preset
Picture Control
Sound Control
Language
> DEMO
Select ▲ ▼ and press OK

Fig.4-4

4. Press the ▲ and ▼ buttons of the commander and move > to DEMO.
5. Press OK button to proceed to the next menu.
6. The menu of fig.4-5 will appear on screen. Select DEVICE corresponding to the adjustment item from the table on next page.

DEVICES

Initialize
> CXA 1587
CXD 2018
TDA 9145
CXA 1526
TDA 6612
CX 7948 A
P/P SERVICE
Select ▲ ▼ and press OK

Fig.4-5

7. If adjustment item is CXA 1587, press the ▼ button and move > to CXA 1587.

CXA 1587

Item No.	Adjustment item	Data Amout
01	PICTURE	53
02	COLOR	31
03	BRIGHT	31
04	HUE	31
05	SHARPNESS	7
06	RGB PICTURE	13
07	SUB CONTRAST	ADJ.
08	SUB COLOR	ADJ.
> 09	SUB BRIGHT	ADJ.
10	SUB HUE	7
11	VM LEVEL	2
12	NR LEVEL	0
13	ABL MODE	0
14	G-DRIVE	ADJ.
15	B-DRIVE	ADJ.

8. Press OK button to get the next selection menu.
9. Press ▼ button and move > to the adjustment item and press OK button.
10. Press the ▲ and ▼ buttons to change the data in order to comply each standard.
11. Press OK button to write data.
12. Turn off the power to quit service mode when completing the adjustment.

CXA 1587

01	PICTURE	53
02	COLOR	31
03	BRIGHT	31
04	HUE	31
05	SHARPNESS	7
06	RGB PICTURE	13
07	SUB CONTRAST	ADJ.
08	SUB COLOR	ADJ.
09	SUB BRIGHT	ADJ.
10	SUB HUE	7
11	VM LEVEL	2
12	NR LEVEL	0
13	ABL MODE	0
14	G-DRIVE	ADJ.
15	B-DRIVE	ADJ.
16	G-AUTO CUT OFF	ADJ.
17	B-AUTO CUT OFF	ADJ.
18	R-MANUAL CUT OFF	ADJ.
19	G-MANUAL CUT OFF	ADJ.
20	B-MANUAL CUT OFF	ADJ.
21	GAMMA LEVEL	0
22	DC TRANSFER RATIO	3
23	DINAMIC PICTURE	0
24	Y FILTER ADJ	ADJ.
25	Y DELAY TIME	15
26	Y DELAY SWITCH 1	0
27	Y DELAY SWITCH 2	1
28	SHARPNESS LIMIT	ON
29	ALL BLK	OFF
30	H SHIFT	32
31	DAC TEST	ON
32	PRE/OVER SHOOT	7
33	SHARPNESS FO	2
34	SUB SHARPNESS	3
35	R MUTE	OFF
36	G MUTE	OFF
37	B MUTE	OFF
38	AGING 1	OFF
39	AGING 2	OFF
40	AKB OFF	ON
41	INHIBIT RGB	OFF
42	FORCED RGB	OFF
43	V/2 V	OFF
44	AXIS	PAL
45	HUE SW	OFF
46	V EXTENTION	OFF
47	AFC 1	1
48	AFC 2	0
49	AFC OFF	ON
50	REF.POSITION	0

CXA 1526

1	DC SHIFT	32
2	UPPER Y BOW	4
3	LOWER Y BOW	5
4	H.AMP	48
5	H TILT	29
6	UPPER COR BOW	32
7	UPPER TILT	32
8	LOWER COR BOW	32
9	LOWER TILT	32

CXD 2018

01	V SIZE	ADJ.
02	V SHIFT	ADJ.
03	S CORRECTION	ADJ.
04	V LINEARITY	ADJ.
05	H SIZE	ADJ.
06	PIN AMP	ADJ.
07	TILT	ADJ.
08	UPPER CORNER	ADJ.
09	LOWER CORNER	ADJ.
10	V BOW	ADJ.
11	ANGLE	ADJ.
12	HV COMP.V	13
13	HV COMP.H	8
14	FRAME SHIFT	OFF
15	FREE RUN 60 Hz	OFF
16	SYSTEM 60 Hz	OFF
17	ASPECT WIDE	OFF
18	DOUBLE SCAN	OFF
19	INTERLACE	ON
20	H SHIFT	32
21	N/S CORRECTION	ADJ.

Typical Value (OSD based)when receiving PAL Philips pattern.

TDA 6612

Stereo-Separation	30

Should be adjusted twice 4 : 3 and 16 : 9 mode.

Y FILTER ADJUSTMENT

1. Input PAL RED pattern.
2. Connect an oscilloscope to CN 0403 ① pin (R OUT) on the C board.
3. Enter into service mode and press 3, 8.
4. Adjust data by △ or ▽ to minimize the chroma element of CN 0403 ① pin.

SUB BRIGHTNESS ADJUSTMENT

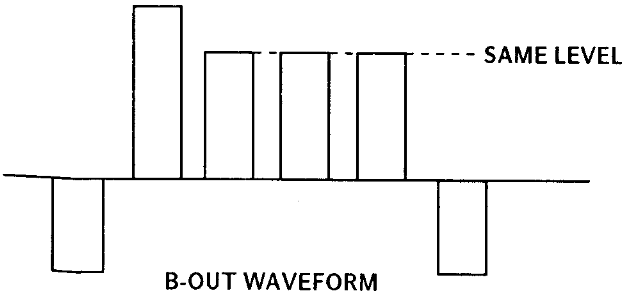
1. Input Phillips pattern.
2. Enter into service mode and press 23.
3. Adjust data so that 0-IRE of the grey scale and CUT -OFF 20-IRE glitter slightly.

SUB CONTRAST ADJUSTMENT

1. Input a video that contains small 100% area on the Black Back ground.
2. Enter into service mode and press 01 to have PIC max followed by 21.
3. Adjust data so that 2.5 Vp-p can be obtained at ① CN 0403 (R out).

SUB COLOR ADJUSTMENT

1. Input PAL color bar.
2. Connect an oscilloscope to CN 0403 ③ pin (B OUT) on the C board.
3. Enter into service mode and press 22 of CXA 1587, 8 SUB COLOR.
4. Adjust data so that the right sides of the waveform will be the same.



B-OUT WAVEFORM

STEREO-SEPARATION ADJUSTMENT

1. Input 1 kHz stereo signal to the L-ch and 400 Hz stereo signal to the R-ch.
2. Enter into service mode and press 19.
3. Adjust data so that sound does not leak to the R-ch and the L-ch.

DRIVE AND CUT OFF

See direct test mode list attached and refer to sub brightness or such for adjustment method.

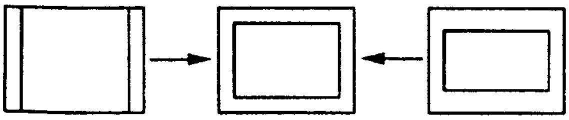
DEFLECTION SYSTEM ADJUSTMENT

1. Enter into service mode and select CXD 2018.
2. Select and adjust each item in order to get an optimum image.

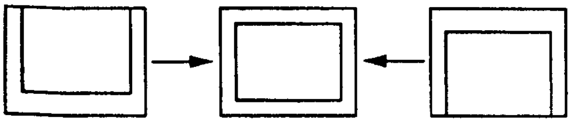
CXD 2018

01	V SIZE	ADJ.
02	V SHIFT	ADJ.
03	S CORRECTION	ADJ.
04	V LINEARITY	ADJ.
05	H SIZE	ADJ.
06	PIN AMP	ADJ.
07	TILT	ADJ.
08	UPPER CORNER	ADJ.
09	LOWER CORNER	ADJ.
10	V BOW	ADJ.
11	ANGLE	ADJ.
12	HV COMP.V	13
13	HV COMP.H	8
14	FRAME SHIFT	OFF
15	FREE RUN 60 Hz	OFF
16	SYSTEM 60 Hz	OFF
17	ASPECT WIDE	OFF
18	DOUBLE SCAM	OFF
19	NON INTERLACE	ON
20	H SHIFT	32
21	N/S CORRECTION	ADJ.

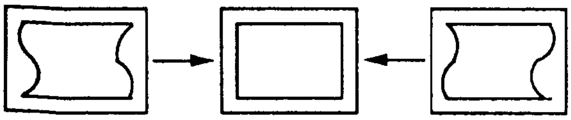
V SIZE



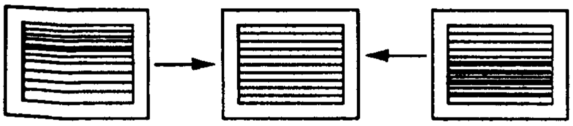
V SHIFT



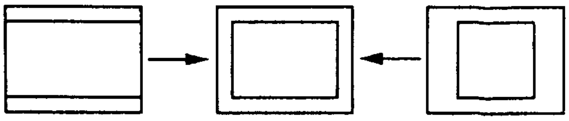
S CORRECTION



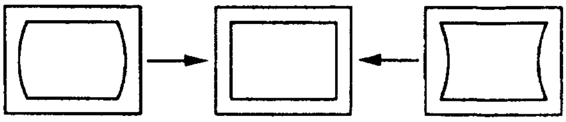
V LINEARITY



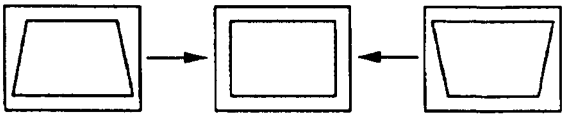
H SIZE



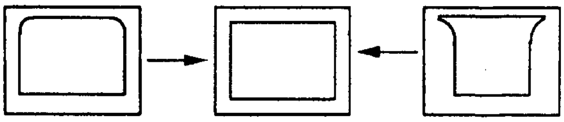
PIN AMP



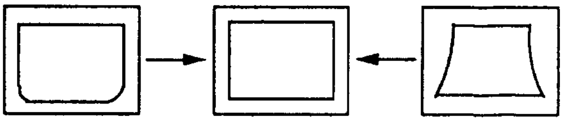
TILT



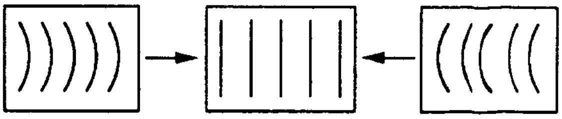
UPPER CORNER PIN



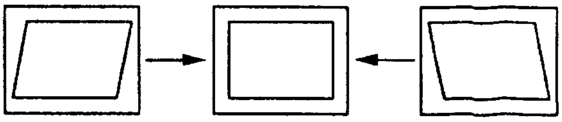
LOWER CORNER PIN



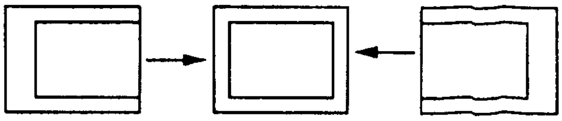
V BOW



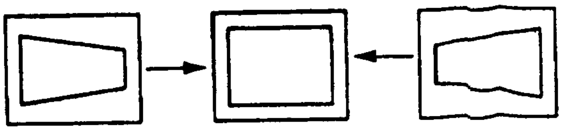
ANGLE



H SHIFT



N/S CORRECTION



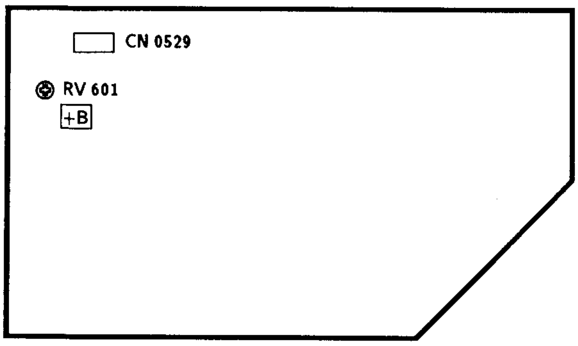
3. Press OK button to write the data.

If menu display may disturb the adjustment press 🔇 to clear, to resume it, press 🔇 again.

4-2. VOLUME ELECTRICAL ADJUSTMENTS

+B (+135 V) ADJUSTMENT (RV 601)

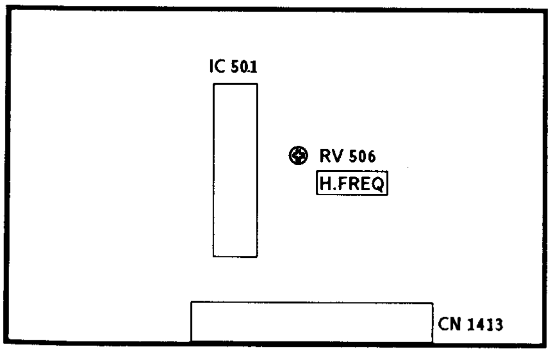
D BOARD



1. Turn on the power of the TV set.
2. Connect a digital multi-meter to ① pin of CN 0529 on D board.
3. Adjust RV 601 on D board to +135±0.5 V.

H.FREQ ADJUSTMENT (RV 506)

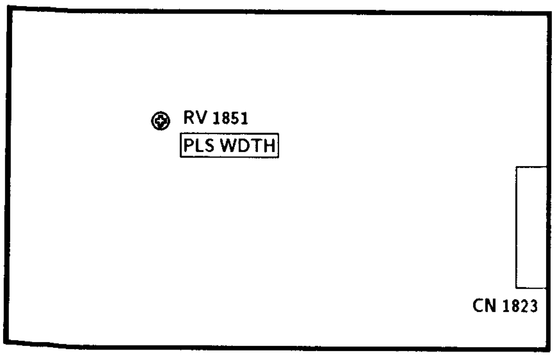
M BOARD



1. Connect GND to ⑫ pin of IC 501 on M board.
2. Connect a frequency counter to ④ pin of IC 501.
3. Adjust RV 506 on M board to 15,625 kHz±10 Hz.
4. Remove ⑫ pin of IC 501 from GND.

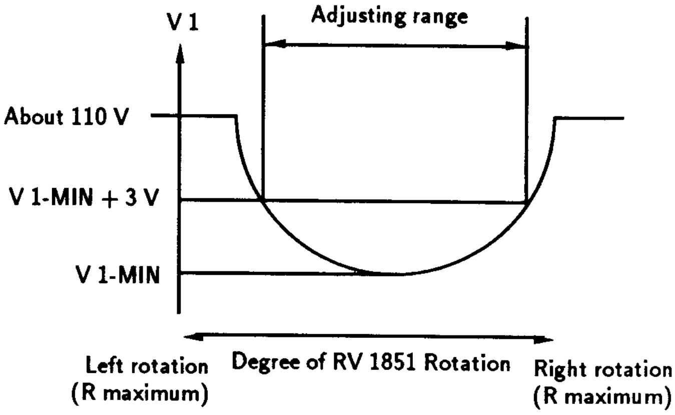
PLS WDTH

D 2 BOARD



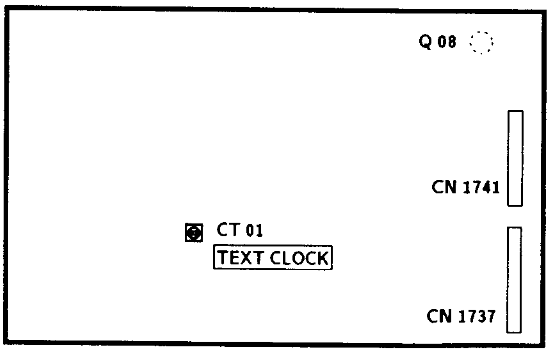
DRIVE PULSE PHASE ADJUSTMENT(RV 1851)

1) While measuring the voltage V 1 at both edges of C 1859, rotate RV 1851 so that it becomes minimum. The adjusting range is from (the voltage at which V 1 becomes minimum) V 1 MIN to 3 V, which means, adjust to between V 1 MIN to V 1 MIN + 3 V.



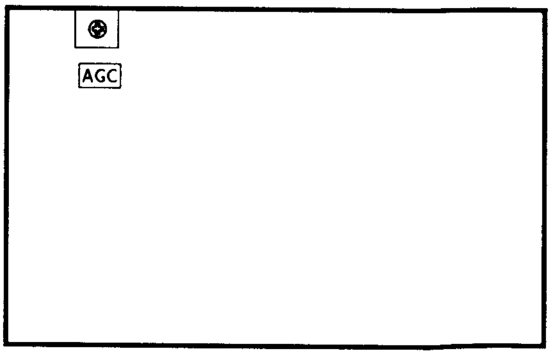
TEXT CLOCK ADJUSTMENT (CT 01)

V BOARD



1. Get TEXT MENU on screen.
2. Connect GND and the base of Q 08 on V board.
3. Adjust CT 01 on V board so that the MENU stands still as much as possible.

AGC ADJUSTMENT (IF BLOCK)



1. Receive off-air signal.
2. Adjust AGC VR so that there is no snow noise and cross-modulation.
3. Change receiving channel and confirm status.

4-3. TEST MODE 2 :

Is available by pressing Test button two times, OSD "TT"appears. The functions described bellow are available by pressing the two numbors. To release the Test Mode 2, press two times 0, or switch TV in Standby Mode.

00	switch Test Mode 2 off
01	picture maximum
02	picture minimum
03	Volume 35%
04	Volume 50%
05	Volume 65%
06	Volume 80%
07	Aging Condition (Volumin., Picture max., Brightness max., Aging 2 Mode of CXA 1587, TDA 2595 is locked to CXA 1587 via PIN 34 of μ-Con.)
08	Shipping Condition (Analog Values are RESET due to factory setting, Prog 1 is selected, TT Mode is switched off)
09	dummy
10	Tenth entry is deleted
11	Balance
12	Hue
13-14	dummy
15	Read factory setting from NVM Reads Volume, Balance, Treble, Bass, Brightness, Contrast, Hue, Sharpness, Colour values from ROM to the actual used values (Last Power Memory)
16	Save actual used values as RESET values Memorize actual used values Balance, Treble, Bass, Hue, Sharpness at RESET position in NVM
17	Preset Lavel for AV Sources
18	dummy
19	Stereo Seperation
20	Tenth entry is deleted
21	Sub Contrast
22	Sub Colour
23	Sub Brightness
24-29	dummy

30	Tenth entry is deleted
31	Green Drive
32	Blue Drive
33	Green Cut Off (Auto Cut Off)
34	Blue Cut Off (Auto Cut Off)
35	Red Cut Off (Manual Cut Off) (Auto Cut Off is switched off)
36	Green Cut Off (Manual Cut Off) (Auto Cut Off is switched off)
37	Blue Cut Off (Manual Cut Off) (Auto Cut Off is switched off)
38	Y-Filter adjustment (Trap is switched off and TDA 9145 is switched in forced NTSC Mode)
39	dummy
40	Tenth entry is deleted
41	Default setting of CXA 1587 (Only in Plog 99 available)
42	Default setting of CXA 2018 (Only in Plog 99 available)
43	Default setting of CXA 1526 (Only in Plog 99 available)
44	(all Port High) Not yet
45	(all Port High) Not yet
46-48	dummy
49	Erease the NVM Testbyte (this byte detects already stored NMV's) After selecting this function, switch TV Off and On → the NVM will be preset by μ-Controller. (Not the channel data)

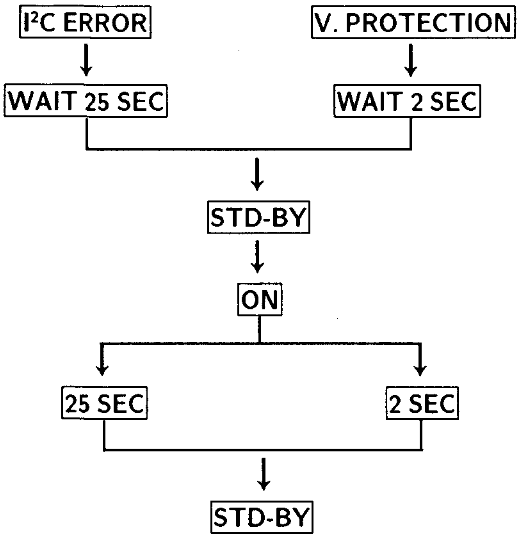
Note : For No. 35, 36, 37 and 38 special pressing (AKB, forced Color Mode, Trap) is selected. After selecting a new Test Mode Number, the AKB is switched ON, the Trap is switched On and TDA 9145 is switched to Auto Search Mode.

In Test Mode 2 the Menu display is switchable by Speaker-Off button.

4-4. ERROR MESSAGE

Self diagnos system can operates as follows.

- When MP can't get the acknowledge back from the device, LED starts flashing according to the table as attached.



In case of more errors in parallel, the blinking error shows max. Priority according to the error number (e.g. error 2 and error 5 appears together, then LEDs shows error 2) .

TABLE OF ERRORS

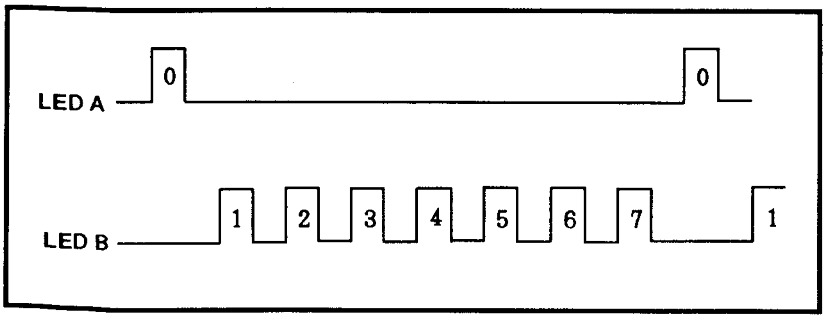
ERROR COUNT	IC TYPE	FUNCTION
1	ⅡC BUS	SDA low
2	X 24 C 16	EEPROM
3	SDA 3202	Tuner Pll
4	TDA 9145	Colour decoder
5	CXA 1587	RGB/Jungle
6	TDA 6612	Sound processor
7	CXD 2018	V deflection
8	CXA 1545	AV switch
11	SDA 5248	Text
13		V protection

Stand by LED blinking No IK return

4-5. ERROR ⅡC BUS DIAGNOSIS SYSTEM IN AE 2 CHASSIS

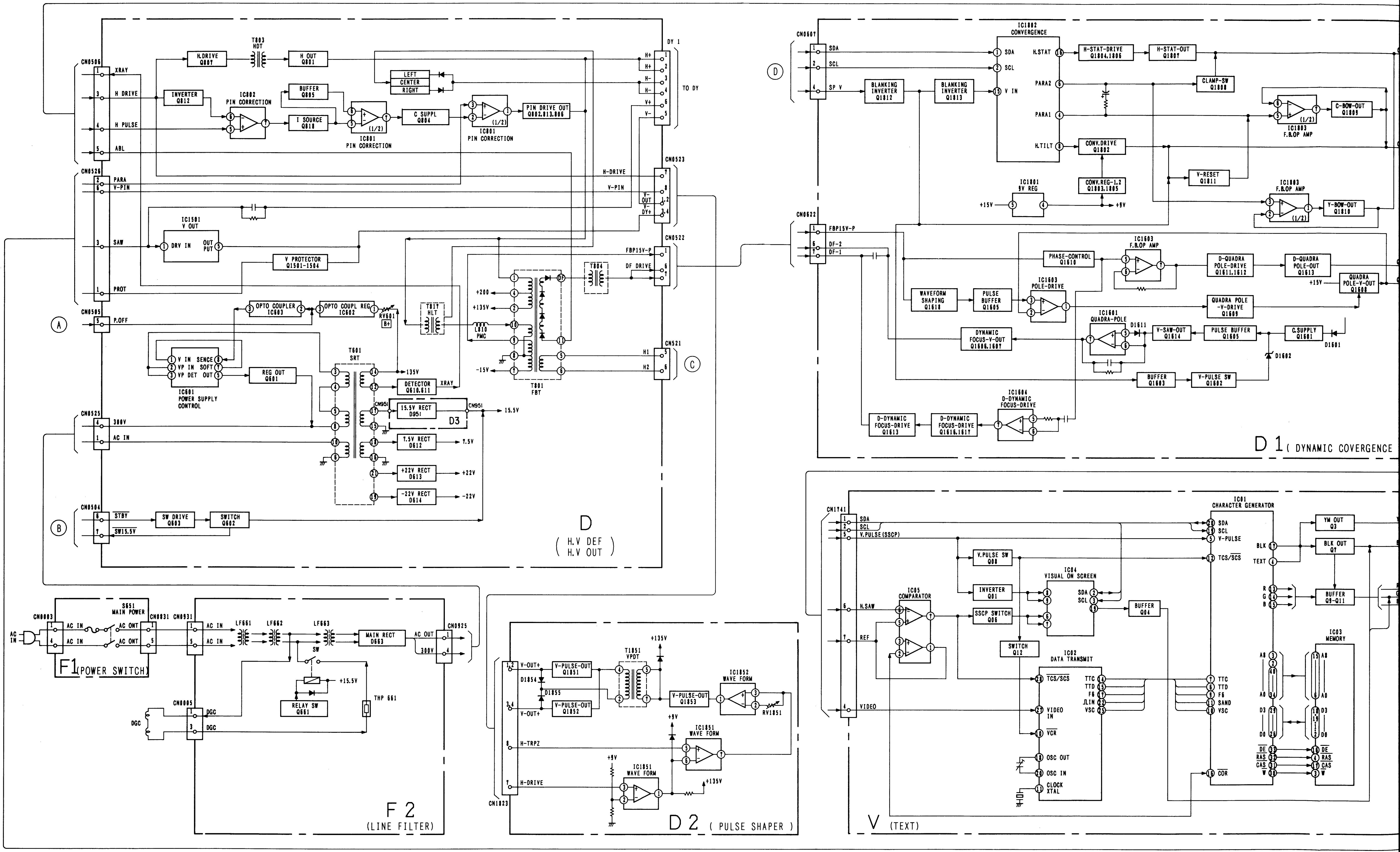
For all ICs in AE 2 chassis which are necessary to get picture and sound there is a built in error I²C Bus diagnosis system.

In case of no acknowledge bit, LED A and LED B starts blinking as shown.

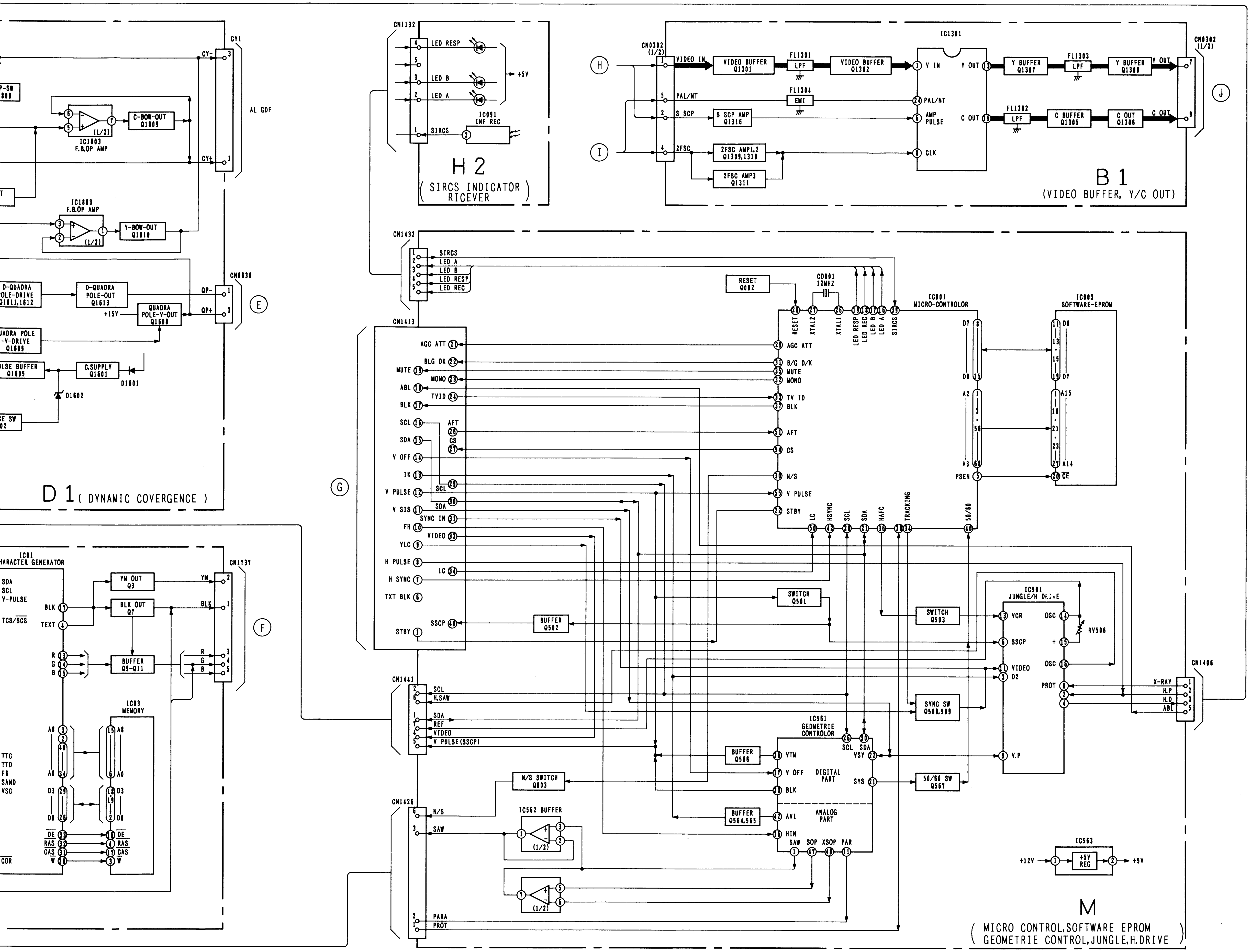


SECTION 5
DIAGRAMS

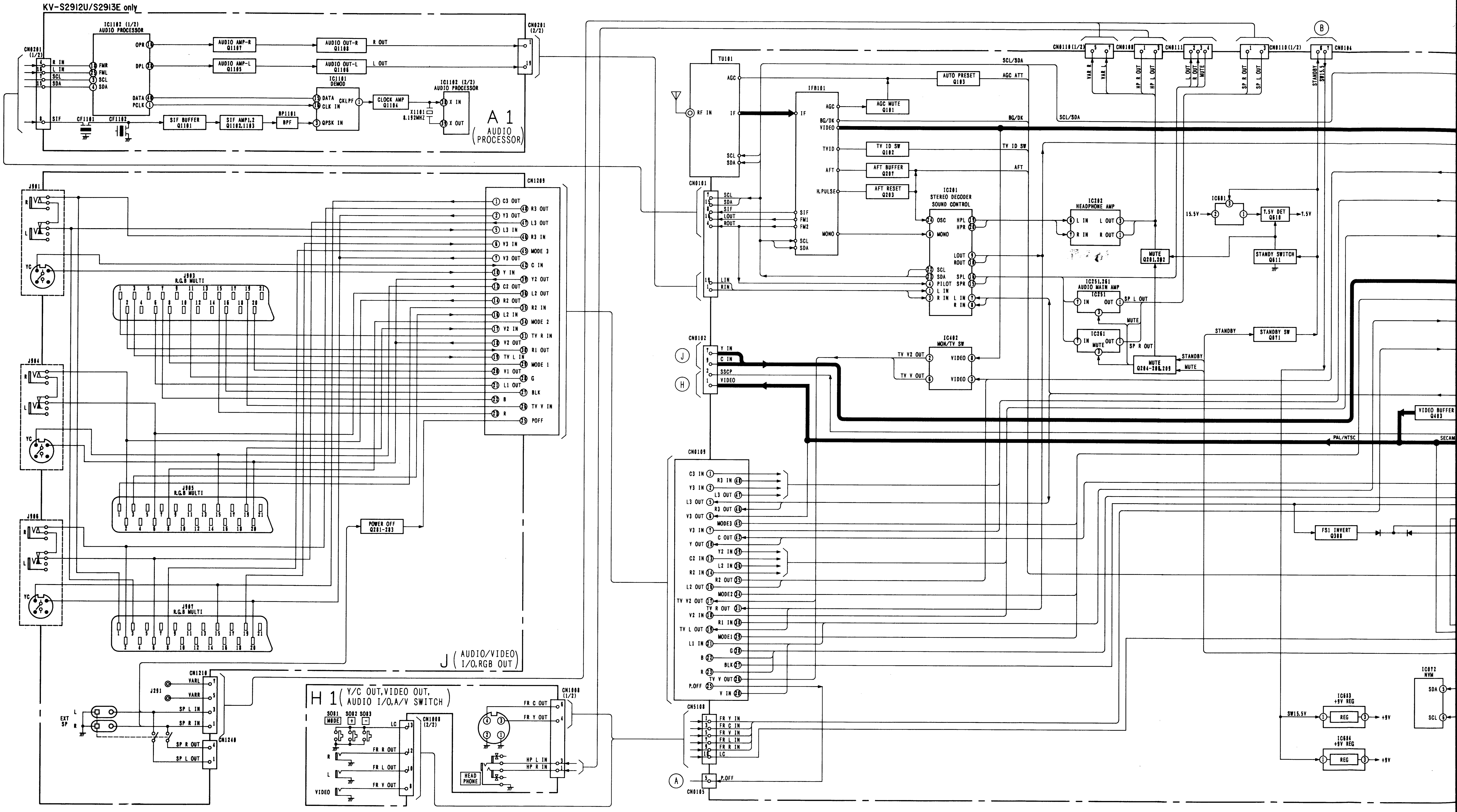
5-1. BLOCK DIAGRAM (1)



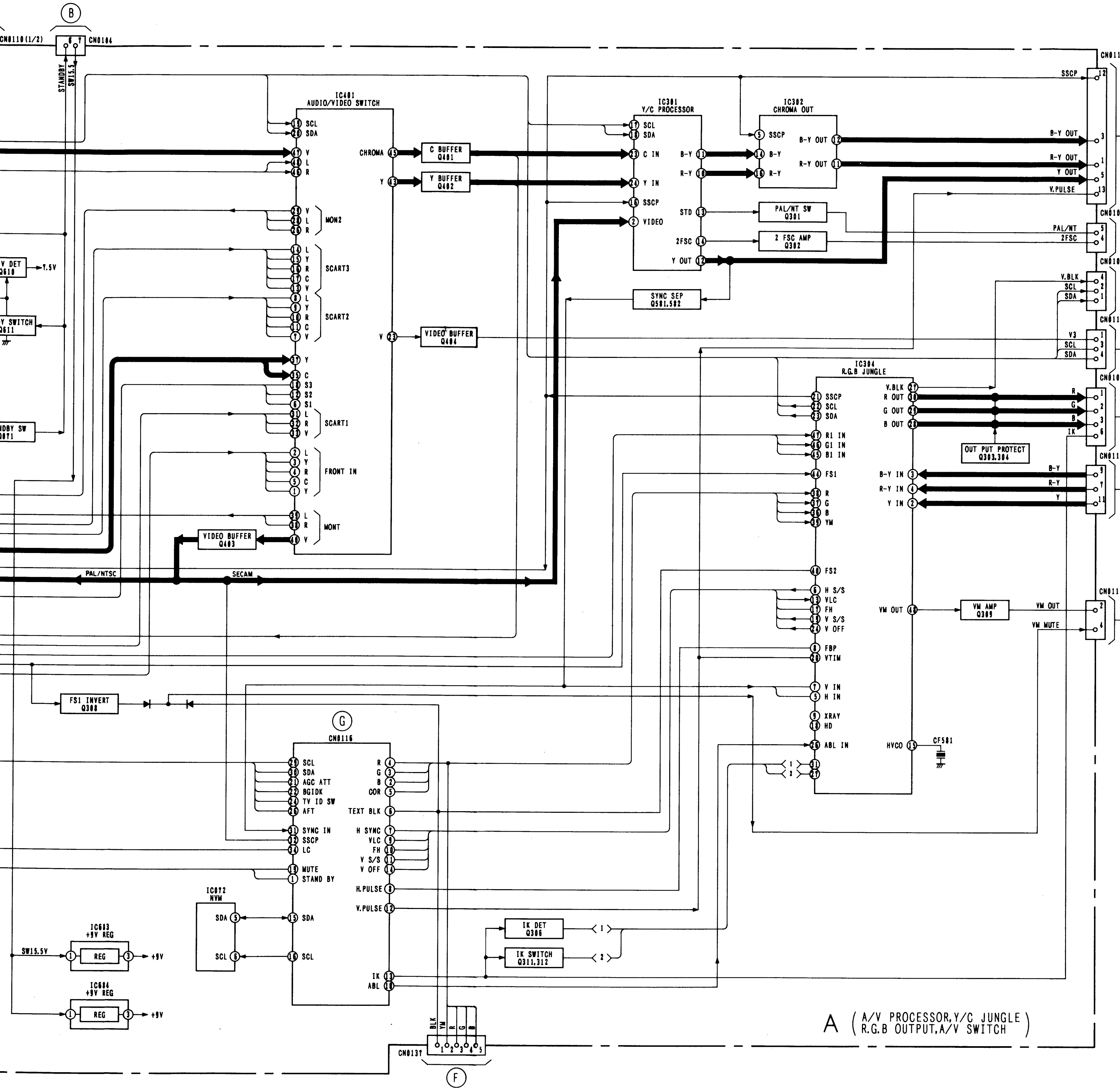
CN0506
XRAY
H DRIVE
H PULSE
ABL
H.DRIVE Q807
T803 HDT
H OUT Q801
LEFT
CENTER
RIGHT
INVERTER Q812
IC802 PIN CORRECTION
BUFFER Q805
I SOURCE Q818
C SUPPL Q804
IC801 PIN CORRECTION
PIN DRIVE OUT Q802,813,806
DY 1
TO DY
CN0526
PARA
V-PIN
SAW
PROT
IC1501 V OUT
DRV IN
OUT PUT
V PROTECTOR Q1501-1504
CN0523
H-DRIVE
V-PIN
V-OUT
V-DY+
CN0522
FBP15V-P
DF DRIVE
T804
CN0505
P.OFF
OPTO COUPLER IC603
OPTO COUPL REG IC602
RV601
B+
T817 HLT
L810 PMC
+200
+135V
-15V
T801 FBT
CN521
H1
H2
IC601 POWER SUPPLY CONTROL
V IN
VP IN
VP DET
SENCE
SOFT
OUT
REG OUT Q601
T601 SRT
+135V
DETECTOR Q610,611
XRAY
CN951
15.5V RECT D951
D3
15.5V
7.5V RECT D612
7.5V
+22V RECT D613
+22V
-22V RECT D614
-22V
CN0525
300V
AC IN
CN0504
STBY
SW15.5V
SW DRIVE Q603
SWITCH Q602
D
(H.V DEF H.V OUT)
A
B
C
D
CN0003
S651 MAIN POWER
CN0031
CN0931
AC IN
AC ONT
LF661
LF662
LF663
MAIN RECT D663
AC OUT
300V
CN0925
SW
+15.5V
RELAY SW Q661
THP 661
CN0005
DGC
F1 (POWER SWITCH)
F 2 (LINE FILTER)
+135V
V-OUT+
D1854
D1855
V-PULSE-OUT Q1851
V-PULSE-OUT Q1852
T1851 VPDT
V-PULSE-OUT Q1853
IC1852 WAVE FORM
RV1851
+9V
IC1851 WAVE FORM
H-TRPZ
H-DRIVE
CN1823
D 2 (PULSE SHAPER)
CN0607
SDA
SCL
SP V
BLANKING INVERTER Q1812
BLANKING INVERTER Q1813
IC1802 CONVERGENCE
H.STAT
PARA2
PARA1
H.TILT
V IN
H-STAT-DRIVE Q1804,1806
H-STAT-OUT Q1807
CLAMP-SW Q1808
C-BOW-OUT Q1809
IC1803 F.B.OP AMP
CONV.DRIVE Q1802
CONV.REG-1,2 Q1803,1805
IC1801 9V REG
+15V
+9V
V-RESET Q1811
Y-BOW-OUT Q1810
CN0622
FBP15V-P
DF-2
DF-1
PHASE-CONTROL Q1610
IC1603 F.B.OP AMP
D-QUADRA POLE-DRIVE Q1611,1612
D-QUADRA POLE-OUT Q1613
QUADRA POLE-V-OUT Q1608
WAVEFORM SHAPING Q1618
PULSE BUFFER Q1605
IC1603 POLE-DRIVE
QUADRA POLE -V-DRIVE Q1609
IC1601 QUADRA-POLE
D1611
V-SAW-OUT Q1614
PULSE BUFFER Q1605
C.SUPPLY Q1601
D1601
D1602
DYNAMIC FOCUS-V-OUT Q1606,1607
BUFFER Q1603
V-PULSE SW Q1602
IC1604 D-DYNAMIC FOCUS-DRIVE
D-DYNAMIC FOCUS-DRIVE Q1613
D-DYNAMIC FOCUS-DRIVE Q1616,1617
D 1 (DYNAMIC COVERGENCE
CN1741
SDA
SCL
V.PULSE (SSCP)
H.SAW
REF
VIDEO
IC01 CHARACTER GENERATOR
V-PULSE
TCS/SCS
BLK
TEXT
YM OUT Q3
BLK OUT Q7
BUFFER Q9-Q11
V.PULSE SW Q08
IC04 VISUAL ON SCREEN
INVERTER Q01
SSCP SWITCH Q06
BUFFER Q04
IC05 COMPARATOR
SWITCH Q12
IC02 DATA TRANSMIT
TTC
TTD
FG
JLIN
VSC
SAND
VIDEO IN
VCR
OSC OUT
OSC IN
CLOCK XTAL
COR
IC03 MEMORY
A8
A0
D3
D0
DE
RAS
CAS
W
V (TEXT)

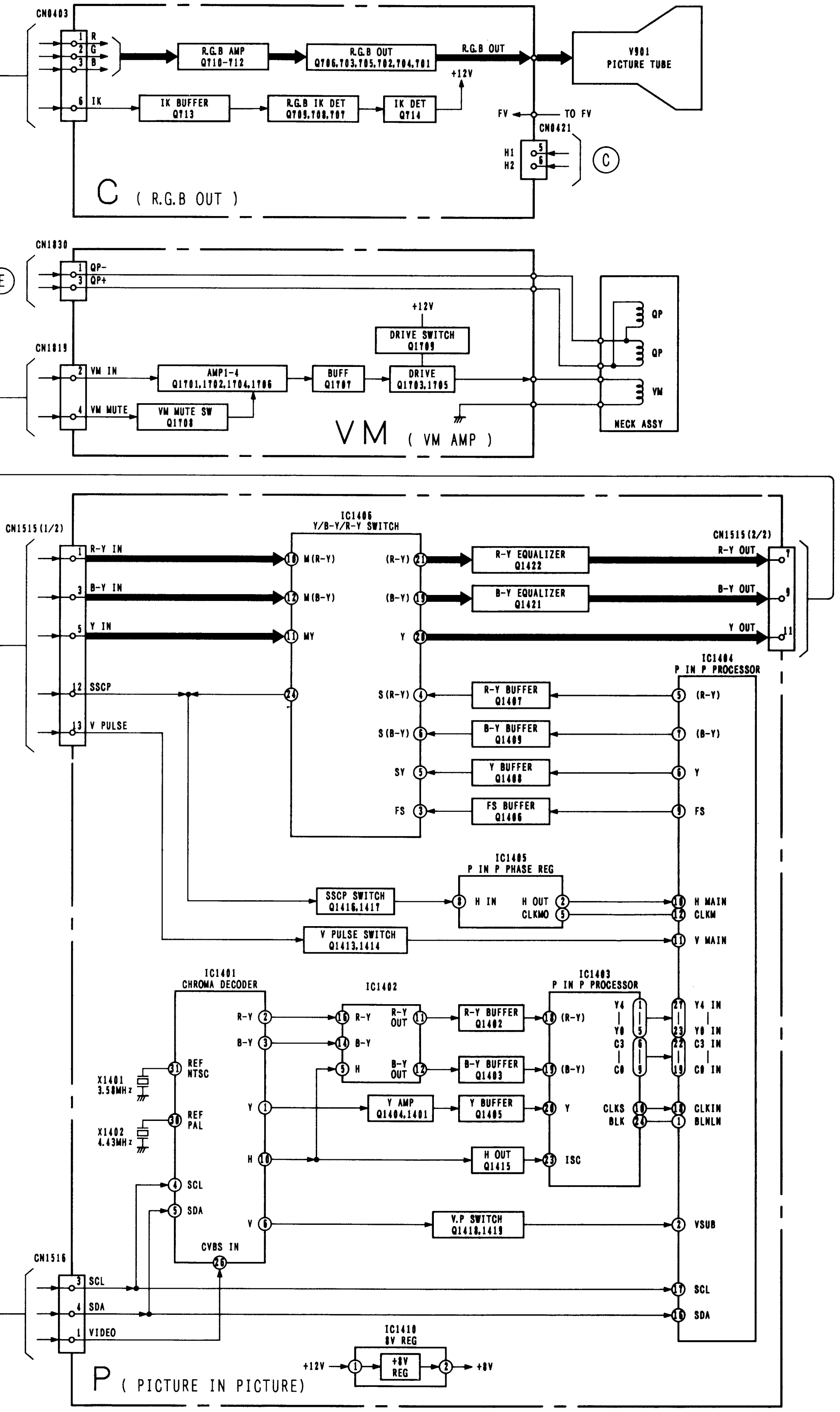

D 1 (DYNAMIC COVERGENCE)
CY1
AL GDF
IC1803 F.B.OP AMP
C-BOW-OUT Q1809
Y-BOW-OUT Q1810
CN0630
D-QUADRA POLE-OUT Q1613
QUADRA POLE-V-OUT Q1608
C.SUPPLY Q1601
D1601
D1602
H 2 (SIRCS INDICATOR RICEVER)
CN1132
LED RESP
LED B
LED A
SIRCS
IC091 INF REC
+5V
B 1 (VIDEO BUFFER, Y/C OUT)
CN0302 (1/2)
VIDEO IN
VIDEO BUFFER Q1301
FL1301 LPF
VIDEO BUFFER Q1302
IC1301
V IN
Y OUT
C OUT
PAL/NT
AMP PULSE
CLK
FL1304 EMI
S SCP
S SCP AMP Q1316
2FSC
2FSC AMP1,2 Q1309,1310
2FSC AMP3 Q1311
Y BUFFER Q1307
FL1303 LPF
Y BUFFER Q1308
FL1302 LPF
C BUFFER Q1305
C OUT Q1306
H
I
J
E
F
G
CN1432
CN1413
AGC ATT
BLG DK
MUTE
MONO
ABL
TVID
BLK
SCL
SDA
AFT
CS
V OFF
IK
V PULSE
V SIS
SYNC IN
FH
VIDEO
VLC
H PULSE
LC
H SYNC
TXT BLK
SSCP
STBY
RESET Q002
CD001 12MHZ
IC001 MICRO-CONTROLOR
XTAL2
XTAL1
IC003 SOFTWARE-EPROM
D0
D7
A15
A14
CE
PSEN
B/G D/K
TV ID
N/S
HSYNC
HAFC
TRACKING
50/60
BUFFER Q502
SWITCH Q501
SWITCH Q503
IC501 JUNGLE/H DRIVE
VCR
OSC
RV506
D2
PROT
V.P
SYNC SW Q508,509
CN1406
X-RAY
H.P
H.D
ABL
CN1441
H.SAW
REF
V PULSE(SSCP)
IC561 GEOMETRIE CONTROLOR
BUFFER Q566
VTM
DIGITAL PART
VSY
SYS
50/60 SW Q567
N/S SWITCH Q003
IC562 BUFFER
BUFFER Q564,565
AV1
ANALOG PART
HIN
SAW
SOP
XSOP
PAR
CN1426
PARA
IC563
+12V
+5V REG
+5V
M (MICRO CONTROL,SOFTWARE EPROM GEOMETRIE CONTROL,JUNGLE,H.DRIVE)
IC01 CHARACTER GENERATOR
V-PULSE
TEXT
YM OUT Q3
BLK OUT Q7
BUFFER Q9-Q11
CN1737
IC03 MEMORY
A8
A0
D3
D0
DE
RAS
CAS
W
TTC
TTD
FB
SAND
VSC
COR

5-2. BLOCK DIAGRAM (2)

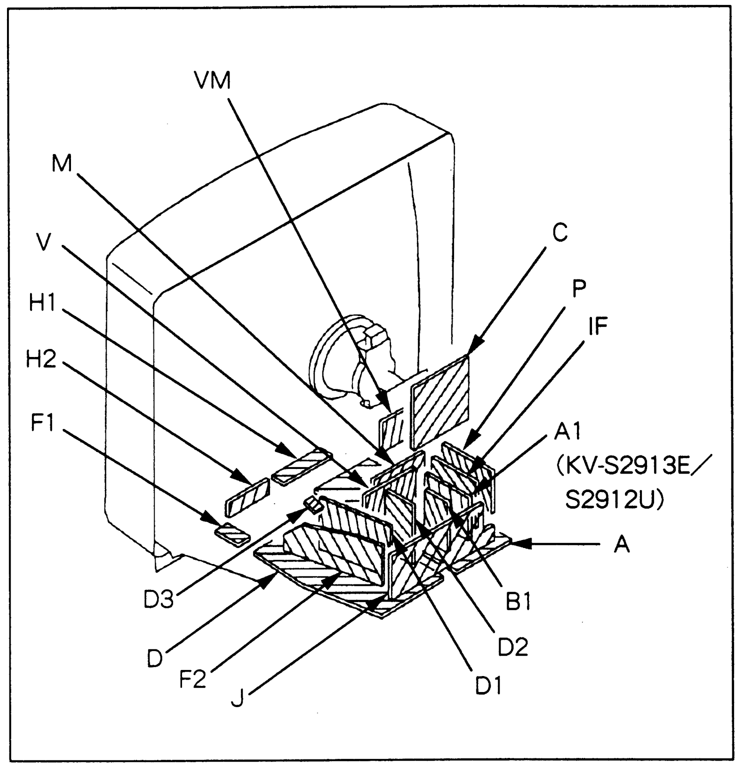


KV-S2912U/S2913E only
IC1102 (1/2) AUDIO PROCESSOR
CN0201 (1/2)
R IN
L IN
SCL
SDA
SIF
FMR
FML
OPR
DPL
DATA
PCLK
AUDIO AMP-R Q1107
AUDIO AMP-L Q1105
AUDIO OUT-R Q1108
AUDIO OUT-L Q1106
R OUT
L OUT
CN0201 (2/2)
IC1101 DEMOD
CLK IN
CKLPF
QPSK IN
CLOCK AMP Q1104
IC1102 (2/2) AUDIO PROCESSOR
X IN
X OUT
X1101 8.192MHZ
CF1101
CF1102
SIF BUFFER Q1101
SIF AMP1,2 Q1102,1103
BP1101 BPF
A1 (AUDIO PROCESSOR)
J901
J903 R.G.B MULTI
J904
J905 R.G.B MULTI
J906
J907 R.G.B MULTI
YC
R
L
CN1209
C3 OUT
Y3 OUT
L3 IN
V3 IN
V3 OUT
Y IN
C2 OUT
R2 OUT
L2 IN
V2 IN
V2 OUT
TV L IN
V1 OUT
L1 OUT
B
R
R3 OUT
L3 OUT
R3 IN
MODE 3
C IN
Y2 OUT
L2 OUT
R2 IN
MODE 2
TV R IN
R1 OUT
MODE 1
G
BLK
TV V IN
POFF
POWER OFF Q281-283
J (AUDIO/VIDEO I/O,RGB OUT)
CN1210
VARL
VARR
SP L IN
SP R IN
J291
EXT SP
CN1240
SP R OUT
SP L OUT
H1 (Y/C OUT,VIDEO OUT, AUDIO I/O,A/V SWITCH)
S081 MODE
S082 +
S083 −
LC
CN1008 (2/2)
FR R OUT
FR L OUT
FR Y OUT
VIDEO
CN1008 (1/2)
FR C OUT
HP L IN
HP R IN
HEAD PHONE
TU101
AGC
RF IN
IF
SCL
SDA
IFB101
BG/DK
VIDEO
TVID
AFT
H.PULSE
SIF
FM1
FM2
MONO
AUTO PRESET Q103
AGC MUTE Q101
TV ID SW Q102
AFT BUFFER Q207
AFT RESET Q203
SCL/SDA
AGC ATT
TV ID SW
IC201 STEREO DECODER SOUND CONTROL
OSC
HPL
HPR
LOUT
ROUT
PILOT
SPL
SPR
L IN
R IN
CN0101
LOUT
ROUT
LIN
RIN
CN0102
Y IN
C IN
SSCP
VIDEO
IC402 MON/TV SW
TV V2 OUT
TV V OUT
IC202 HEADPHONE AMP
MUTE Q281,282
IC251,261 AUDIO MAIN AMP
IC251
IC261
SP L OUT
SP R OUT
MUTE
MUTE Q204-208,209
STANDBY
STANDBY SW Q871
CN0110 (1/2)
CN0108
CN0111
CN0104
VAR R
VAR L
HP R OUT
HP L OUT
L OUT
R OUT
MUTE
SP R OUT
SP L OUT
STANDBY
SW15.5V
IC601
15.5V
7.5V DET Q610
7.5V
STANDY SWITCH Q611
VIDEO BUFFER Q403
PAL/NTSC
SECAM
CN0109
C3 IN
Y3 IN
L3 OUT
V3 OUT
V3 IN
Y OUT
C2 IN
R2 IN
L2 OUT
TV V2 OUT
V2 IN
TV L OUT
L1 IN
P.OFF
R3 IN
L3 OUT
R3 OUT
MODE3
C OUT
Y2 IN
L2 IN
R2 OUT
MODE2
TV R OUT
R1 IN
MODE1
TV V OUT
V IN
CN5100
FR Y IN
FR C IN
FR V IN
FR L IN
FR R IN
CN0105
P.OFF
FS1 INVERT Q308
IC603 +9V REG
IC604 +9V REG
REG
+9V
SW15.5V
IC072 NVM
SDA
SCL
A
B
H
J


B
CN0110(1/2)
CN0104
STANDBY
SW15.5
IC401 AUDIO/VIDEO SWITCH
SCL
SDA
CHROMA
C BUFFER Q401
Y BUFFER Q402
MON2
SCART3
SCART2
SCART1
FRONT IN
MONT
VIDEO BUFFER Q404
VIDEO BUFFER Q403
PAL/NTSC
SECAM
IC301 Y/C PROCESSOR
C IN
Y IN
SSCP
VIDEO
B-Y
R-Y
STD
2FSC
Y OUT
PAL/NT SW Q301
2 FSC AMP Q302
SYNC SEP Q501,502
IC302 CHROMA OUT
B-Y OUT
R-Y OUT
CN0115(1/2)
V.PULSE
CN0102
PAL/NT
I
CN0107
V.BLK
D
CN0116
V3
CN0103
IK
IC304 R.G.B JUNGLE
R OUT
G OUT
B OUT
OUT PUT PROTECT Q303,304
RI IN
GI IN
BI IN
FS1
FS2
YM
H S/S
VLC
FH
V S/S
V OFF
FBP
VTIM
V IN
H IN
XRAY
HD
ABL IN
HVCO
CF501
VM OUT
VM AMP Q309
VM MUTE
CN0119
FS1 INVERT Q308
G
CN0116
AGC ATT
BGIDK
TV ID SW
AFT
SYNC IN
LC
MUTE
STAND BY
COR
TEXT BLK
H SYNC
H.PULSE
V.PULSE
ABL
IC072 NVM
IK DET Q306
IK SWITCH Q311,312
IC603 +9V REG
IC604 +9V REG
REG
SW15.5V
+9V
V DET Q610
T.5V
Y SWITCH Q611
STANDBY SW Q607
CN0137
F
BLK
YM
A (A/V PROCESSOR,Y/C JUNGLE R.G.B OUTPUT,A/V SWITCH)


CN0403
R.G.B AMP Q710-712
R.G.B OUT Q706,703,705,702,704,701
R.G.B OUT
V901 PICTURE TUBE
IK BUFFER Q713
R.G.B IK DET Q709,708,707
IK DET Q714
+12V
FV
TO FV
CN0421
H1
H2
C
C (R.G.B OUT)
CN1030
E
QP-
QP+
CN1019
VM IN
VM MUTE
AMPI-4 Q1701,1702,1704,1706
BUFF Q1707
DRIVE SWITCH Q1709
DRIVE Q1703,1705
VM MUTE SW Q1708
QP
VM
NECK ASSY
VM (VM AMP)
IC1406 Y/B-Y/R-Y SWITCH
CN1515(1/2)
R-Y IN
B-Y IN
Y IN
SSCP
V PULSE
M(R-Y)
M(B-Y)
MY
R-Y EQUALIZER Q1422
B-Y EQUALIZER Q1421
CN1515(2/2)
R-Y OUT
B-Y OUT
Y OUT
IC1404 P IN P PROCESSOR
R-Y BUFFER Q1407
B-Y BUFFER Q1409
Y BUFFER Q1408
FS BUFFER Q1406
IC1405 P IN P PHASE REG
SSCP SWITCH Q1416,1417
H IN
H OUT
CLKMO
H MAIN
CLKM
V PULSE SWITCH Q1413,1414
V MAIN
IC1401 CHROMA DECODER
REF NTSC
REF PAL
X1401 3.58MHz
X1402 4.43MHz
IC1402
R-Y BUFFER Q1402
B-Y BUFFER Q1403
Y AMP Q1404,1401
Y BUFFER Q1405
H OUT Q1415
IC1403 P IN P PROCESSOR
Y4 IN
Y0 IN
C3 IN
C0 IN
CLKS
BLK
CLKIN
BLNLN
ISC
V.P SWITCH Q1418,1419
VSUB
CVBS IN
CN1516
SCL
SDA
VIDEO
IC1410 8V REG
+8V REG
+12V
+8V
P (PICTURE IN PICTURE)

5-3. CIRCUIT BOARDS LOCATION


VM
M
V
H1
H2
F1
C
P
IF
A1
(KV-S2913E/
S2912U)
A
B1
D2
D1
J
F2
D
D3

5-4. SCHEMATIC DIAGRAMS AND PRINTED WIRING BOARDS

Note :

- All capacitors are in μF unless otherwise noted. pF : μμF 50WV or less are not indicated except for electrolytic.
- Indication of resistance, which dose not have one for rating electrical power, is as follows.

Pitch : 5mm Rating electrical power : ¼W

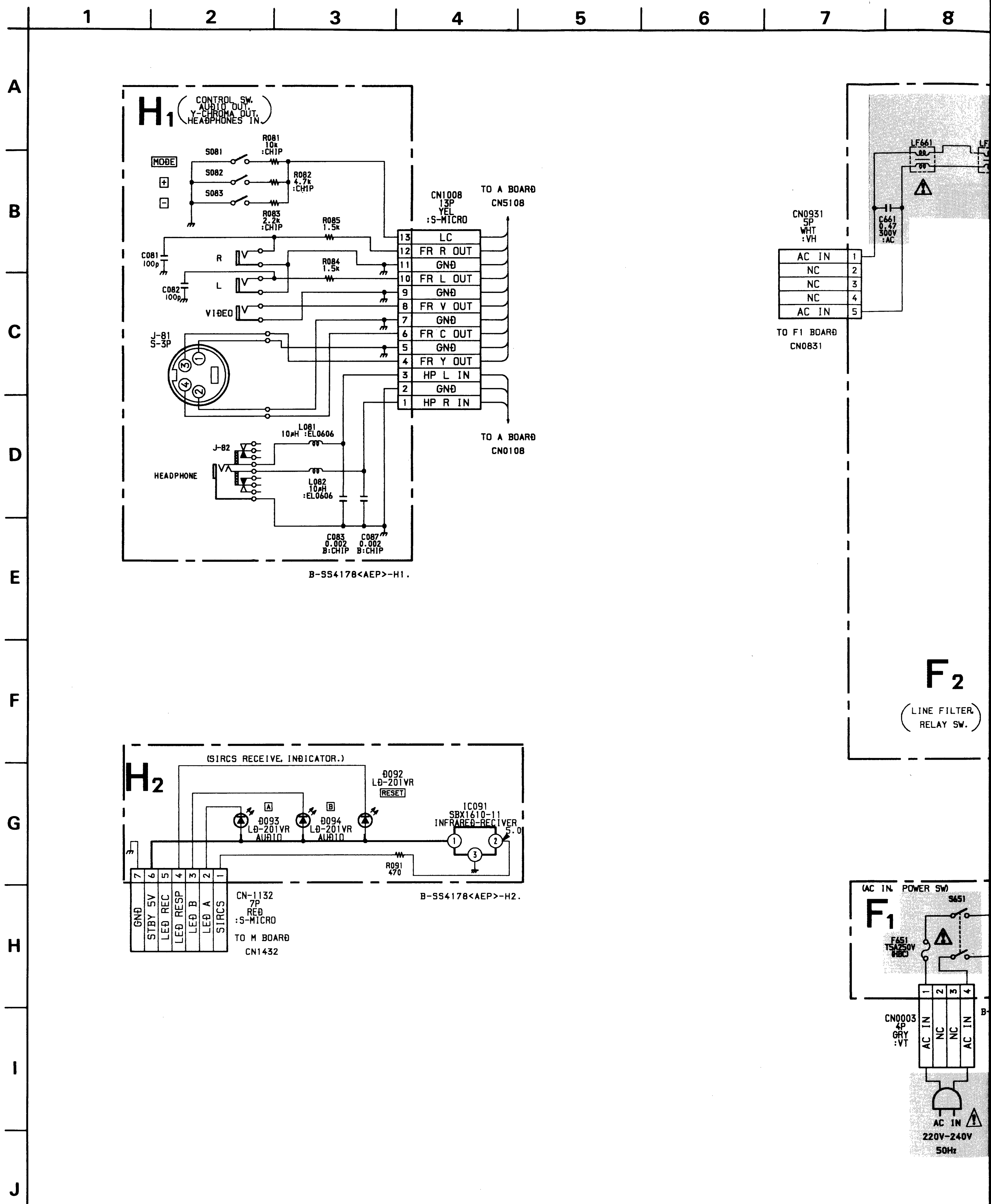
- Chip resistor is in 1/10W.
- All resistors are in ohms. kΩ = 1000Ω, MΩ = 1000KΩ
- ▭ : nonflammable resistor.
- ▭ : fusible resistor.
- △ : internal component.
- ▭ : panel designation or adjustment for repair.
- All variable and adjustable resistors have charactristic curve B, unless otherwise noted.
- ⊥ : earth - ground
- ⊥ : earth - chassis
- All voltages are in V.
- Readings are taken with a 10MΩ digital multimeter.
- Readings are taken with a color-bar signal input.
- Voltage variations may be noted due to normal production tolerances.
- ━ : B + bus.
- ╍ : B − bus.
- ▨ : signal path.(RF)

Reference information

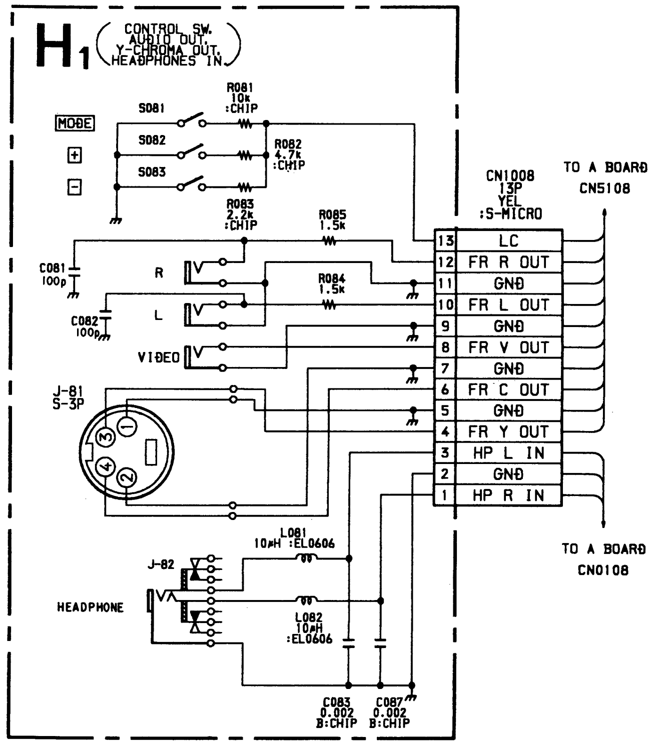
RESISTOR	RN	: METAL FILM
	RC	: SOLID
	FPRD	: NONFLAMMABLE CARBON
	FUSE	: NONFLAMMABLE FUSIBLE
	RS	: NONFLAMMABLE METAL OXIDE
	RB	: NONFLAMMABLE CEMENT
	RW	: NONFLAMMABLE WIREWOUND
	※	: ADJUSTMENT RESISTOR
COIL	LF-8L	: MICRO INDUCTOR
CAPACITOR	TA	: TANTALUM
	PS	: STYROL
	PP	: POLYPROPYLENE
	PT	: MYLAR
	MPS	: METALIZED POLYESTER
	MPP	: METALIZED POLYPROPYLENE
	ALB	: BIPOLAR
	ALT	: HIGH TEMPERATURE
	ALR	: HIGH RIPPLE

Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

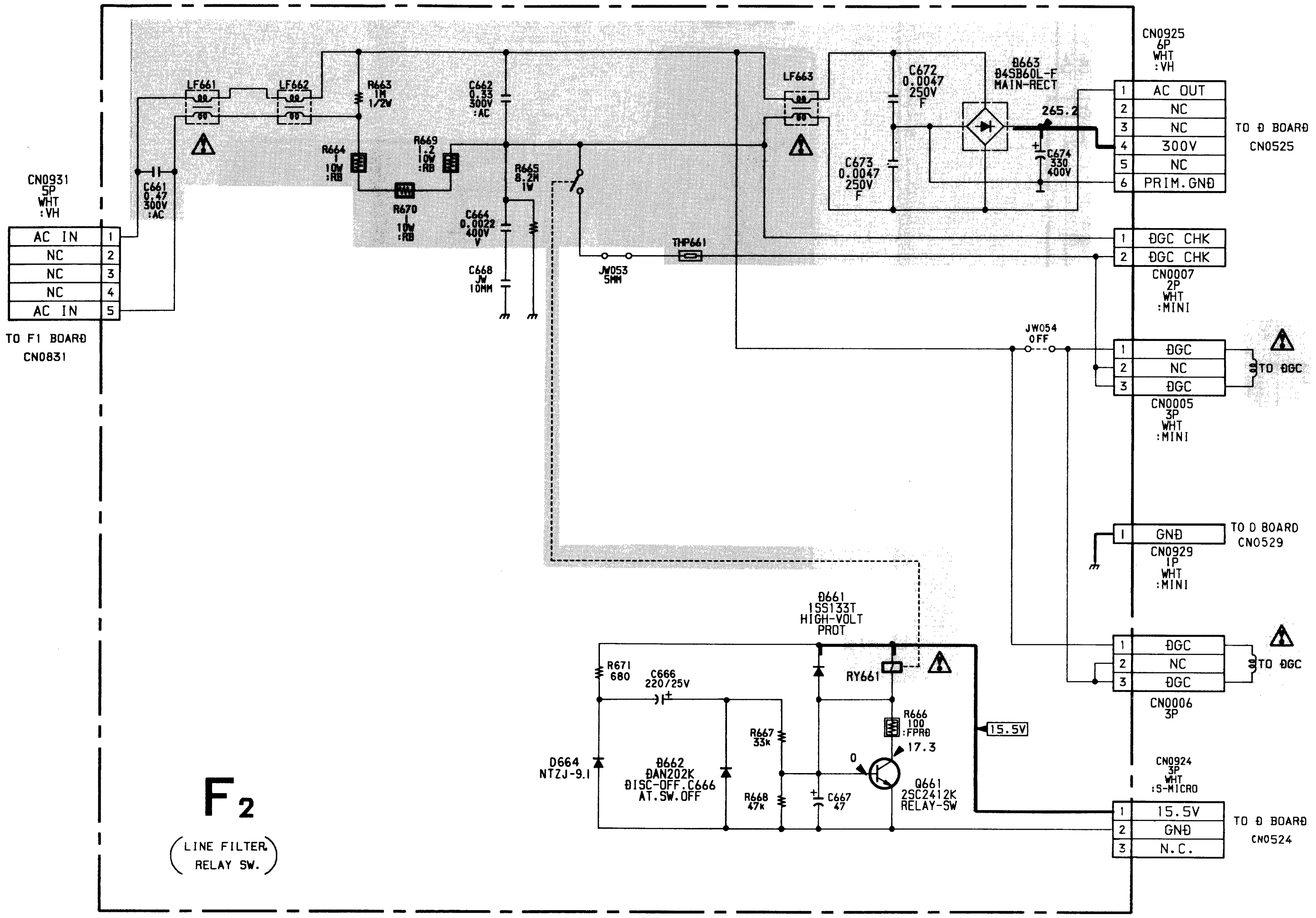
Note: Les composants identifiés par une trame et par une marque ⚠ sont d'une importance critique pour la sécurité. Ne les remplacer que par des pièces de numéro spécifié.


1
2
3
4
5
6
7
8
A
B
C
D
E
F
G
H
I
J
H1
CONTROL SW. AUDIO OUT. Y-CHROMA OUT. HEADPHONES IN.
MODE
+
−
S081
S082
S083
R081 10k :CHIP
R082 4.7k :CHIP
R083 2.2k :CHIP
R085 1.5k
R084 1.5k
C081 100p
C082 100p
R
L
VIDEO
J-81 S-3P
J-82
HEADPHONE
L081 10μH :EL0606
L082 10μH :EL0606
C083 0.002 B:CHIP
C087 0.002 B:CHIP
CN1008 13P YEL :S-MICRO
13 LC
12 FR R OUT
11 GND
10 FR L OUT
9 GND
8 FR V OUT
7 GND
6 FR C OUT
5 GND
4 FR Y OUT
3 HP L IN
2 GND
1 HP R IN
TO A BOARD CN5108
TO A BOARD CN0108
B-SS4178<AEP>-H1.
H2
(SIRCS RECEIVE, INDICATOR.)
D092 LD-201VR
RESET
A
B
D093 LD-201VR AUDIO
D094 LD-201VR AUDIO
IC091 SBX1610-11 INFRARED-RECIVER
5.0
R091 470
7 GND
6 STBY 5V
5 LED REC
4 LED RESP
3 LED B
2 LED A
1 SIRCS
CN-1132 7P RED :S-MICRO
TO M BOARD CN1432
B-SS4178<AEP>-H2.
CN0931 5P WHT :VH
1 AC IN
2 NC
3 NC
4 NC
5 AC IN
TO F1 BOARD CN0831
LF661
C661 0.47 300V :AC
F2
LINE FILTER, RELAY SW.
(AC IN, POWER SW)
F1
S651
F651 T5A250V (HBC)
CN0003 4P GRY :VT
1 AC IN
2 NC
3 NC
4 AC IN
AC IN
220V-240V 50Hz

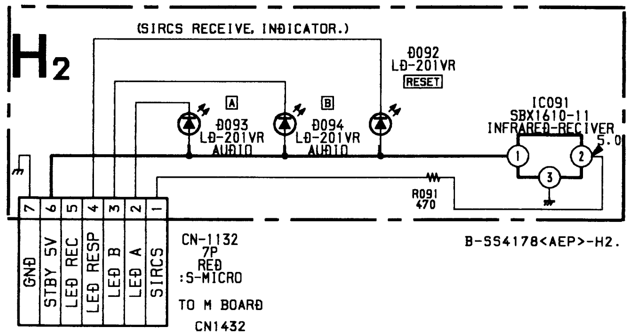
H1 CONTROL SW, AUDIO
Y-CHROMA OUT,
HEADPHONE IN


H1 (CONTROL SW, AUDIO OUT, Y-CHROMA OUT, HEADPHONES IN)
MODE
S081
S082
S083
R081 10k :CHIP
R082 4.7k :CHIP
R083 2.2k :CHIP
R085 1.5k
R084 1.5k
C081 100p
C082 100p
R
L
VIDEO
J-81 S-3P
CN1008 13P YEL :S-MICRO
TO A BOARD CN5108
13 LC
12 FR R OUT
11 GND
10 FR L OUT
9 GND
8 FR V OUT
7 GND
6 FR C OUT
5 GND
4 FR Y OUT
3 HP L IN
2 GND
1 HP R IN
TO A BOARD CN0108
L081 10μH :EL0606
J-82
HEADPHONE
L082 10μH :EL0606
C083 0.002 B:CHIP
C087 0.002 B:CHIP

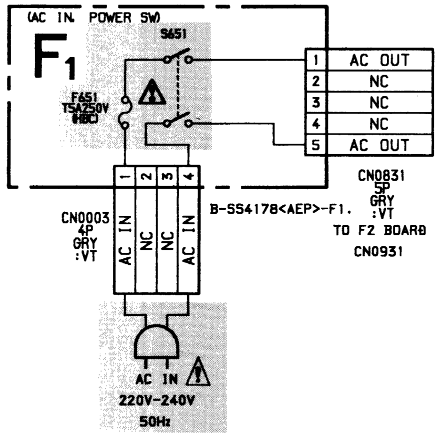
B-SS4178<AEP>-H1.


CN0931 5P WHT :VH
AC IN
NC
NC
NC
AC IN
TO F1 BOARD CN0831
LF661
LF662
C661 0.47 300V :AC
R663 1M 1/2W
R664 10W :RB
C662 0.33 300V :AC
R669 1.2 10W :RB
R670 10W :RB
C664 0.0022 400V
R665 8.2M 1W
C668 JW 10MM
JW053 5MM
THP661
LF663
C672 0.0047 250V F
C673 0.0047 250V F
D663 D4SB60L-F MAIN-RECT
265.2
C674 330 400V
CN0925 6P WHT :VH
1 AC OUT
2 NC
3 NC
4 300V
5 NC
6 PRIM.GND
TO D BOARD CN0525
1 DGC CHK
2 DGC CHK
CN0007 2P WHT :MINI
JW054 OFF
1 DGC
2 NC
3 DGC
CN0005 3P WHT :MINI
TO DGC
1 GND
CN0929 1P WHT :MINI
TO D BOARD CN0529
D661 1SS133T HIGH-VOLT PROT
R671 680
C666 220/25V
RY661
R666 100 :FPRD
15.5V
17.3
R667 33k
D664 NTZJ-9.1
D662 DAN202K DISC-OFF.C666 AT.SW.OFF
R668 47k
C667 47
Q661 2SC2412K RELAY-SW
0
1 DGC
2 NC
3 DGC
CN0006 3P
TO DGC
CN0924 3P WHT :S-MICRO
1 15.5V
2 GND
3 N.C.
TO D BOARD CN0524
F2 (LINE FILTER RELAY SW.)

B-SS4178<AEP>-F2.

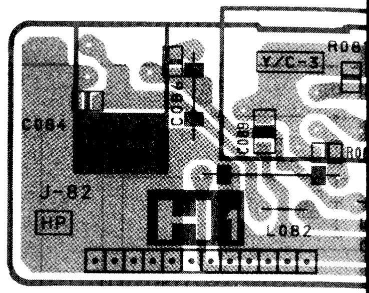

H2
(SIRCS RECEIVE INDICATOR.)
D092 LD-201VR RESET
A
B
D093 LD-201VR AUDIO
D094 LD-201VR AUDIO
IC091 SBX1610-11 INFRARED-RECIVER
5.0
R091 470
7 GND
6 STBY 5V
5 LED REC
4 LED RESP
3 LED B
2 LED A
1 SIRCS
CN-1132 7P RED :S-MICRO
TO M BOARD CN1432

B-SS4178<AEP>-H2.

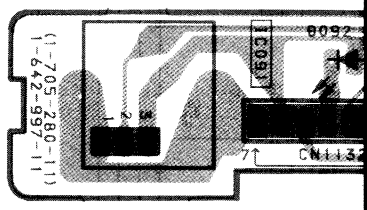

(AC IN POWER SW)
F1
S651
F651 T5A250V (H8C)
1 AC OUT
2 NC
3 NC
4 NC
5 AC OUT
CN0831 5P GRY :VT
TO F2 BOARD CN0931
CN0003 4P GRY :VT
AC IN
NC
NC
AC IN
AC IN 220V-240V 50Hz

B-SS4178<AEP>-F1.

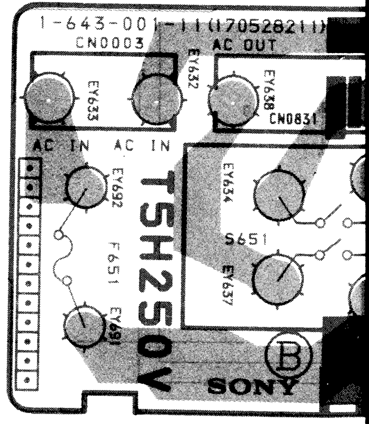
- H1 BOARD -

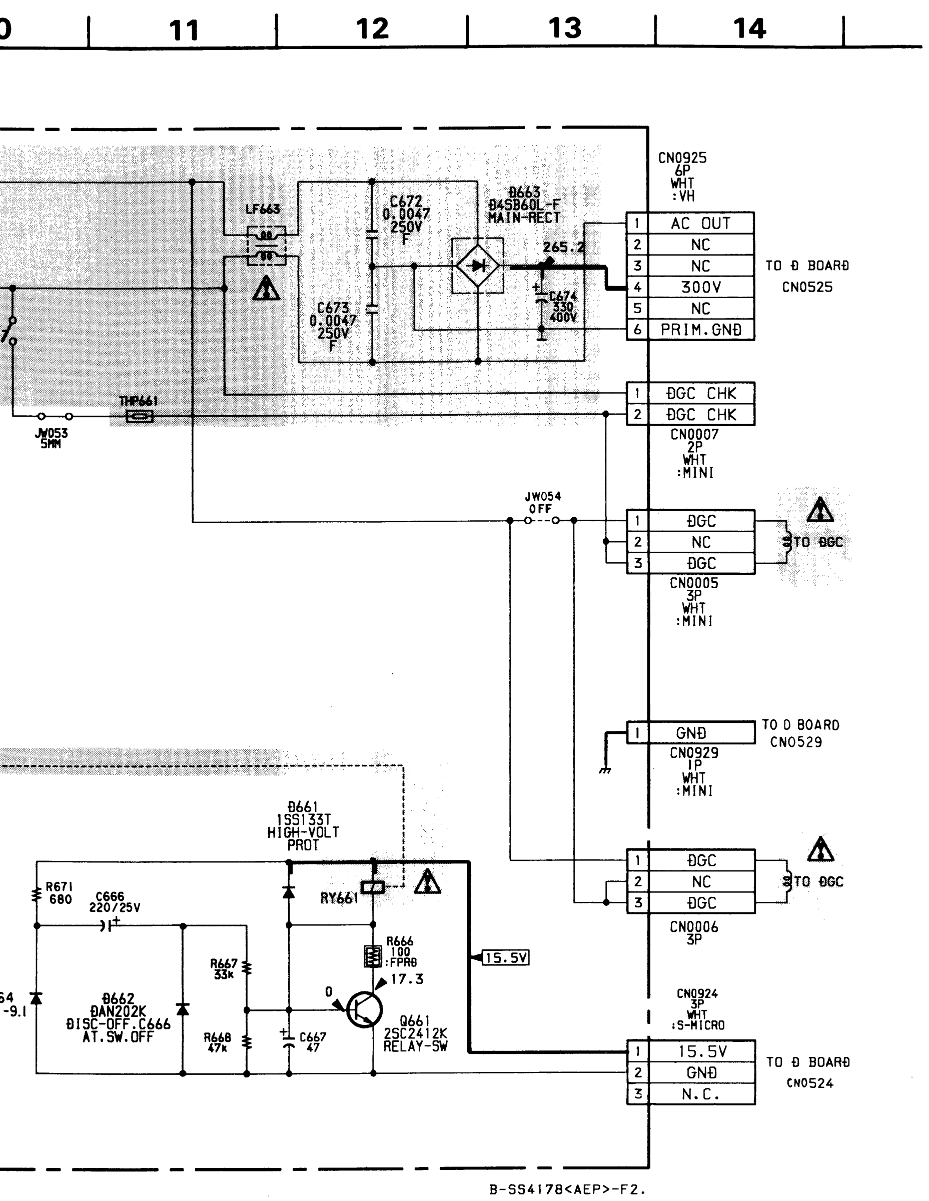

Y/C-3
C084
J-82
HP
H1
L082

- H2 BOARD -


IC091
D092
1-705-280-11
1-642-997-11
CN1132

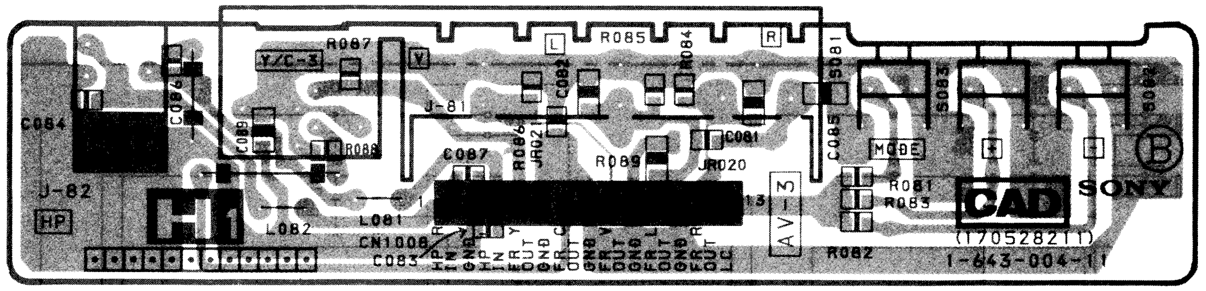
- F1 BOARD -


1-643-001-11(17052821)
CN0003
AC OUT
EY633
EY632
EY638
CN0831
AC IN
AC IN
EY692
EY634
S651
F651
EY637
T5H250V
SONY

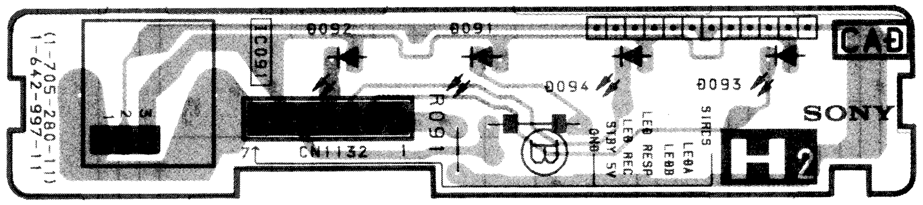

11
12
13
14
CN0925 6P WHT :VH
LF663
C672 0.0047 250V F
D663 D4SB60L-F MAIN-RECT
265.2
C673 0.0047 250V F
C674 330 400V
1 AC OUT
2 NC
3 NC
4 300V
5 NC
6 PRIM.GND
TO D BOARD CN0525
THP661
JW053 5MM
1 DGC CHK
2 DGC CHK
CN0007 2P WHT :MINI
JW054 OFF
1 DGC
2 NC
3 DGC
CN0005 3P WHT :MINI
TO DGC
1 GND
CN0929 1P WHT :MINI
TO D BOARD CN0529
D661 1SS133T HIGH-VOLT PROT
R671 680
C666 220/25V
RY661
1 DGC
2 NC
3 DGC
CN0006 3P
TO DGC
R666 100 :FPRD
17.3
15.5V
R667 33k
D662 DAN202K DISC-OFF.C666 AT.SW.OFF
R668 47k
C667 47
Q661 2SC2412K RELAY-SW
CN0924 3P WHT :S-MICRO
1 15.5V
2 GND
3 N.C.
TO D BOARD CN0524
-9.1
B-SS4178<AEP>-F2.

H1 [CONTROL SW, AUDIO OUT, Y-CHROMA OUT, HEADPHONE IN] **H2** [SIRCS RECEIVER, INDICATOR] **F1** [AC IN, POWER SW] **F2** [LINE FILTER, RELAY SW]

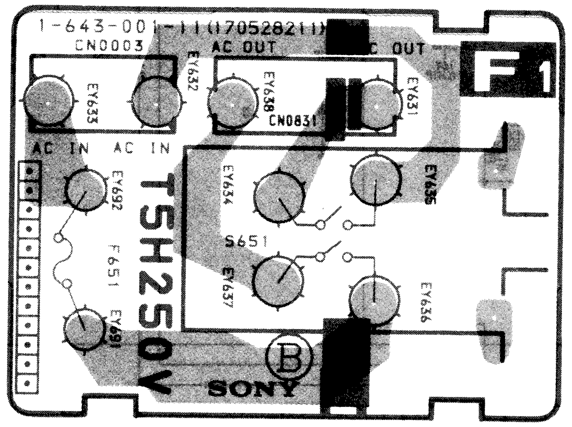
– H1 BOARD –


Y/C-3
R087
R085
R084
L
R
C084
J-81
J-82
HP
C087
R088
R089
JR020
C081
MODE
CAD
SONY
R081
R083
R082
AV-3
L082
L081
CN1008
C083
H1
(17052821 1)
1-643-004-11

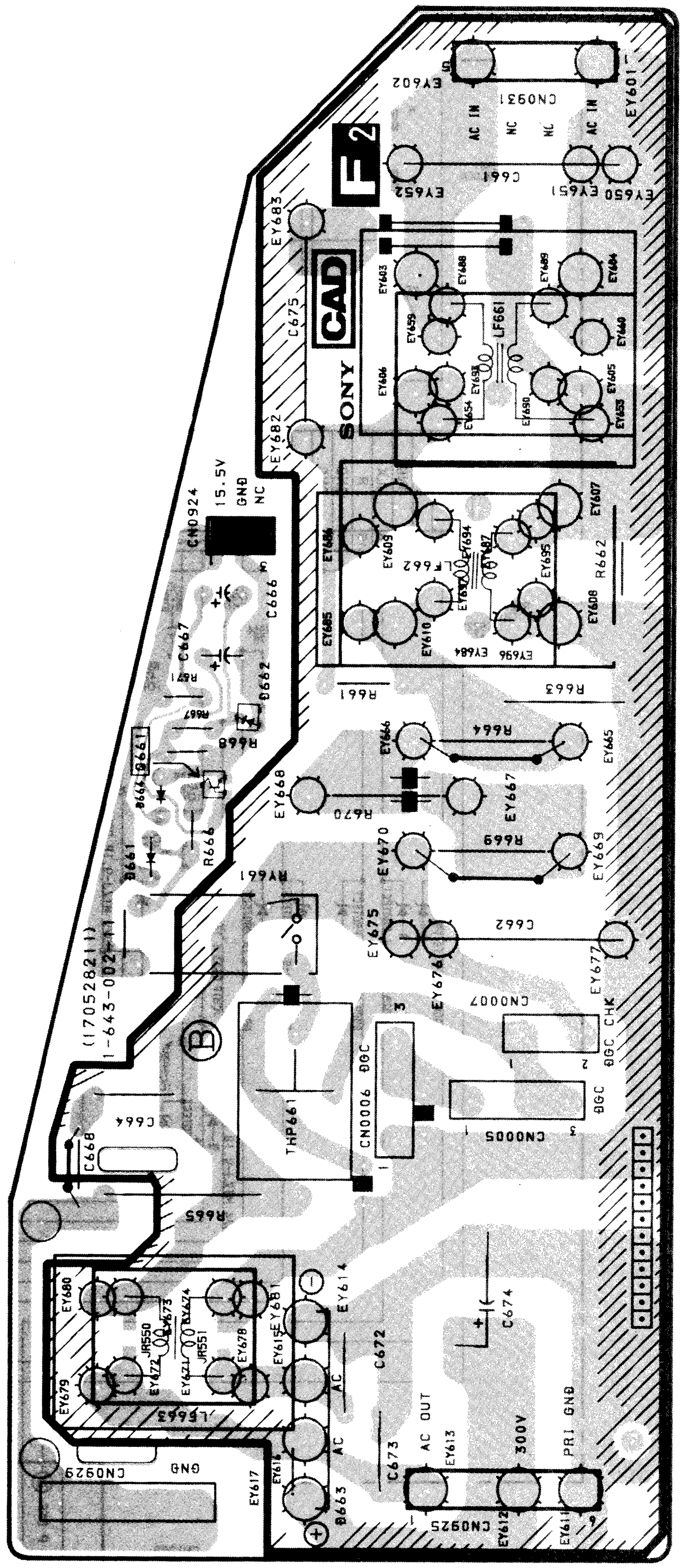
– H2 BOARD –

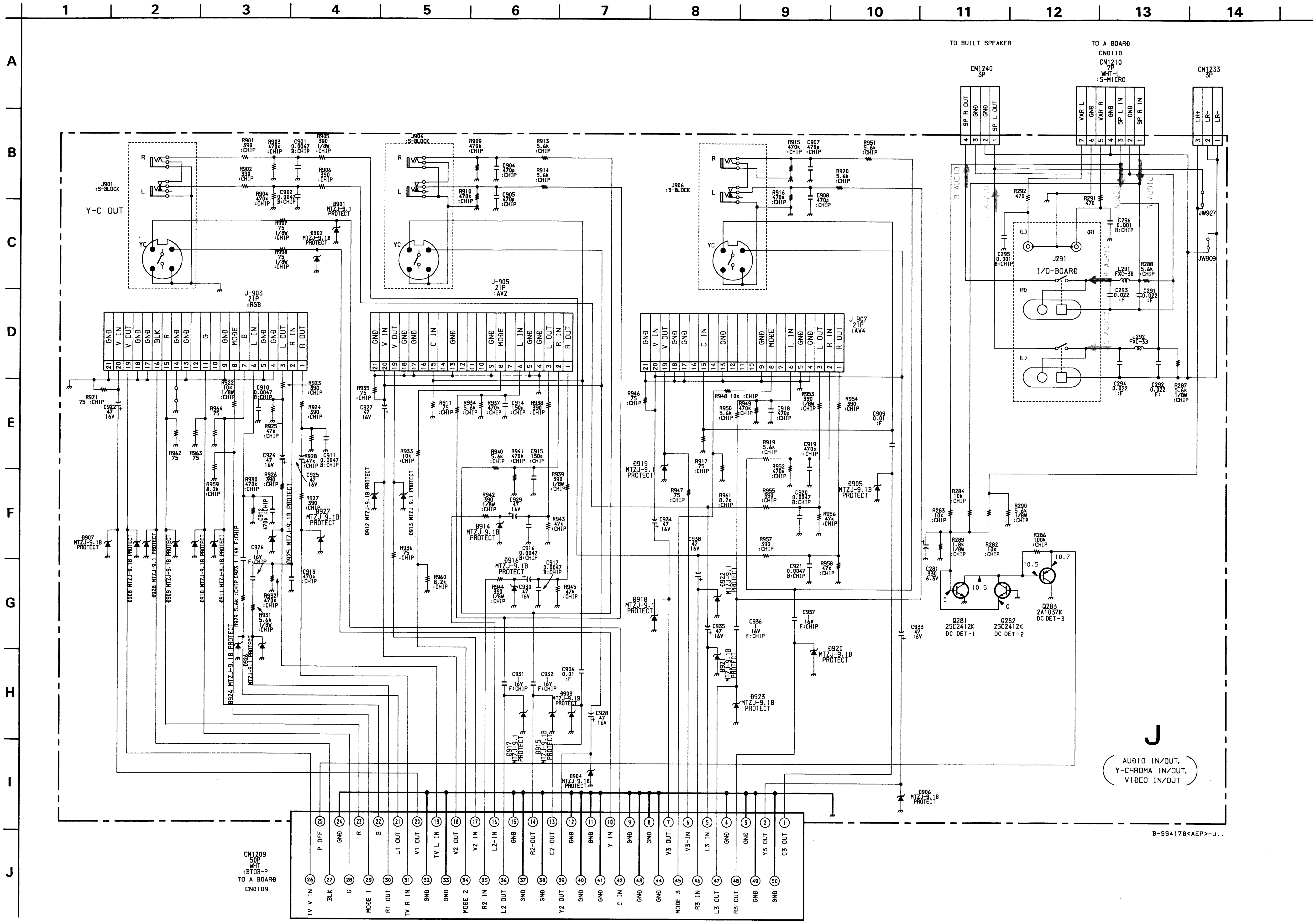

D092
D091
C091
D094
D093
R091
CN1132
CAD
SONY
H2
1-642-997-11 (1-705-280-11)

– F1 BOARD –


1-643-001-11(17052821 1)
CN0003
AC OUT
AC OUT
CN0831
EY633
EY632
EY638
EY631
AC IN
AC IN
EY692
EY634
EY635
S651
F651
EY637
EY636
EY691
T5H250V
SONY
F1

– F2 BOARD –


CN0931
EY602
EY601
AC IN
NC
NC
AC IN
EY652
C661
EY651
EY650
F2
EY683
C675
CAD
SONY
LF661
EY682
CN0924
15.5V
GND
NC
C666
C667
R671
D662
LF662
R662
EY609
EY607
EY608
EY610
EY684
EY696
R661
R663
R664
EY666
EY665
R668
D661
R666
R667
EY668
EY667
R670
R669
EY670
EY669
RY661
EY675
EY676
C662
EY677
CN0007
DGC CHK
(17052821 1)
1-643-002-11
THP661
CN0006 DGC
CN0005
DGC
C664
C668
R665
EY680
EY681
EY679
JR550
JR551
LF663
EY678
EY614
C672
C674
EY615
AC
AC OUT
EY613
300V
PRI GND
CN0929
GND
C673
EY617
EY616
D663
CN0925
EY612
EY611


1
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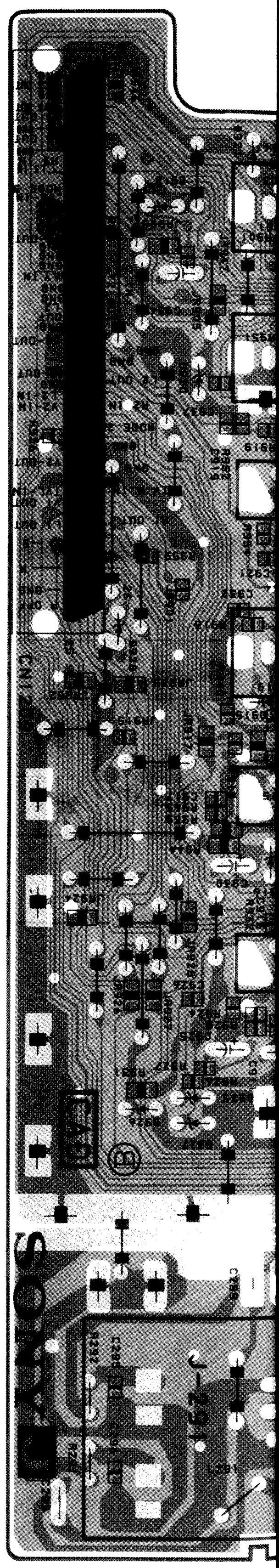
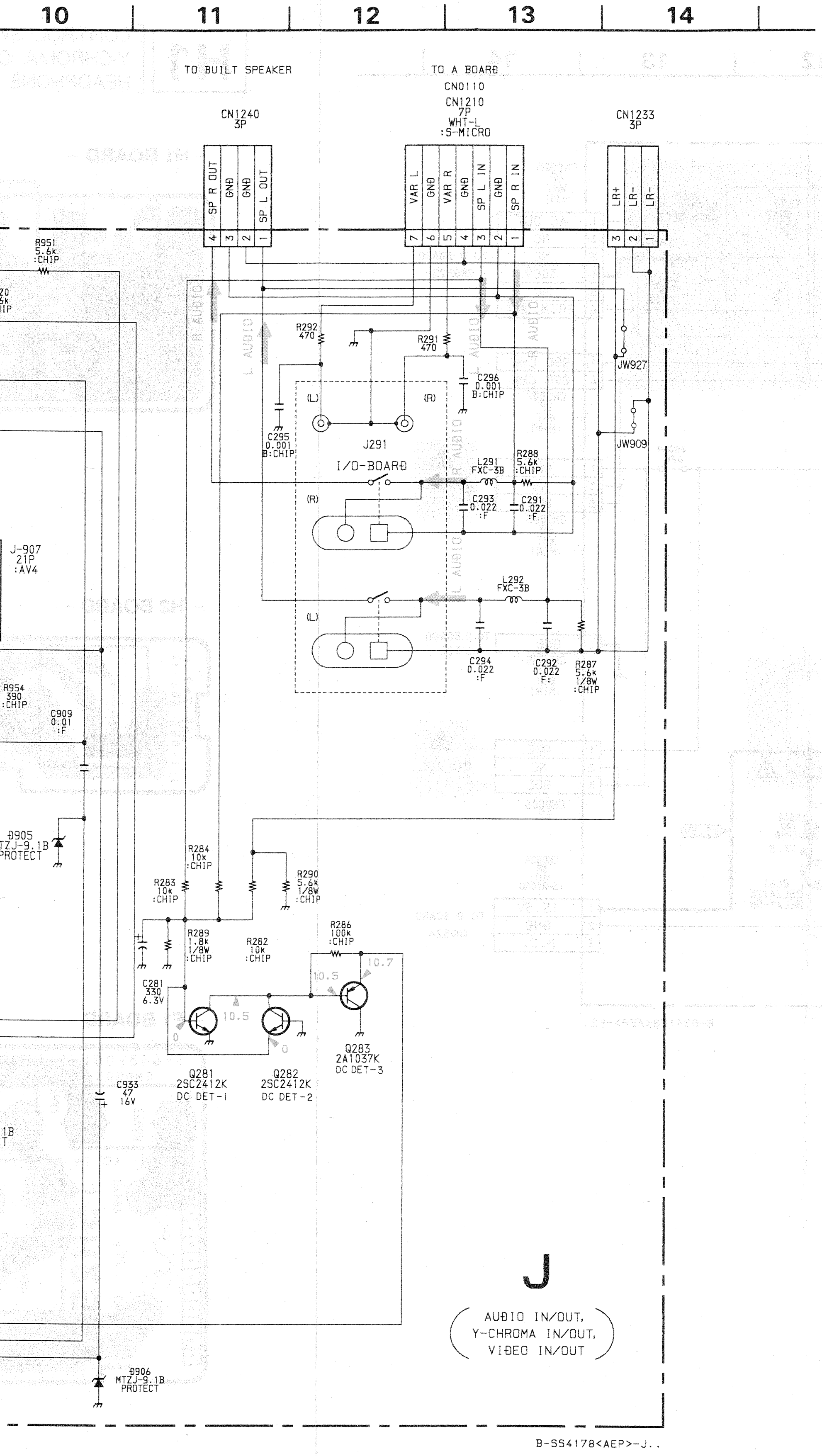
A
B
C
D
E
F
G
H
I
J
TO BUILT SPEAKER
TO A BOARD
CN0110
CN1210
7P
WHT-L
:S-MICRO
CN1240
3P
CN1233
3P
SP R OUT
GND
GND
SP L OUT
VAR L
GND
VAR R
GND
SP L IN
GND
SP R IN
LR+
LR-
LR-
J901
:S-BLOCK
Y-C OUT
J904
:S-BLOCK
J906
:S-BLOCK
J-903
21P
:RGB
J-905
21P
:AV2
J-907
21P
:AV4
J291
I/O-BOARD
JW927
JW909
Q281
2SC2412K
DC DET-1
Q282
2SC2412K
DC DET-2
Q283
2A1037K
DC DET-3
J
AUDIO IN/OUT,
Y-CHROMA IN/OUT,
VIDEO IN/OUT
CN1209
50P
WHT
:BTOB-P
TO A BOARD
CN0109
P OFF
GND
R
B
L1 OUT
V1 OUT
TV L IN
V2 OUT
V2 IN
L2-IN
GND
R2-OUT
C2-OUT
GND
GND
Y IN
GND
GND
V3 OUT
V3-IN
L3 IN
GND
GND
Y3 OUT
C3 OUT
TV V IN
BLK
G
MODE 1
R1 OUT
TV R IN
GND
GND
MODE 2
R2 IN
L2 OUT
GND
GND
Y2 OUT
GND
GND
C IN
GND
GND
MODE 3
R3 IN
L3 OUT
R3 OUT
GND
GND
B-SS4178<AEP>-J..

J AUDIO IN/OUT
Y-CHROMA IN/
VIDEO IN/OUT

- J BOARD -




10
11
12
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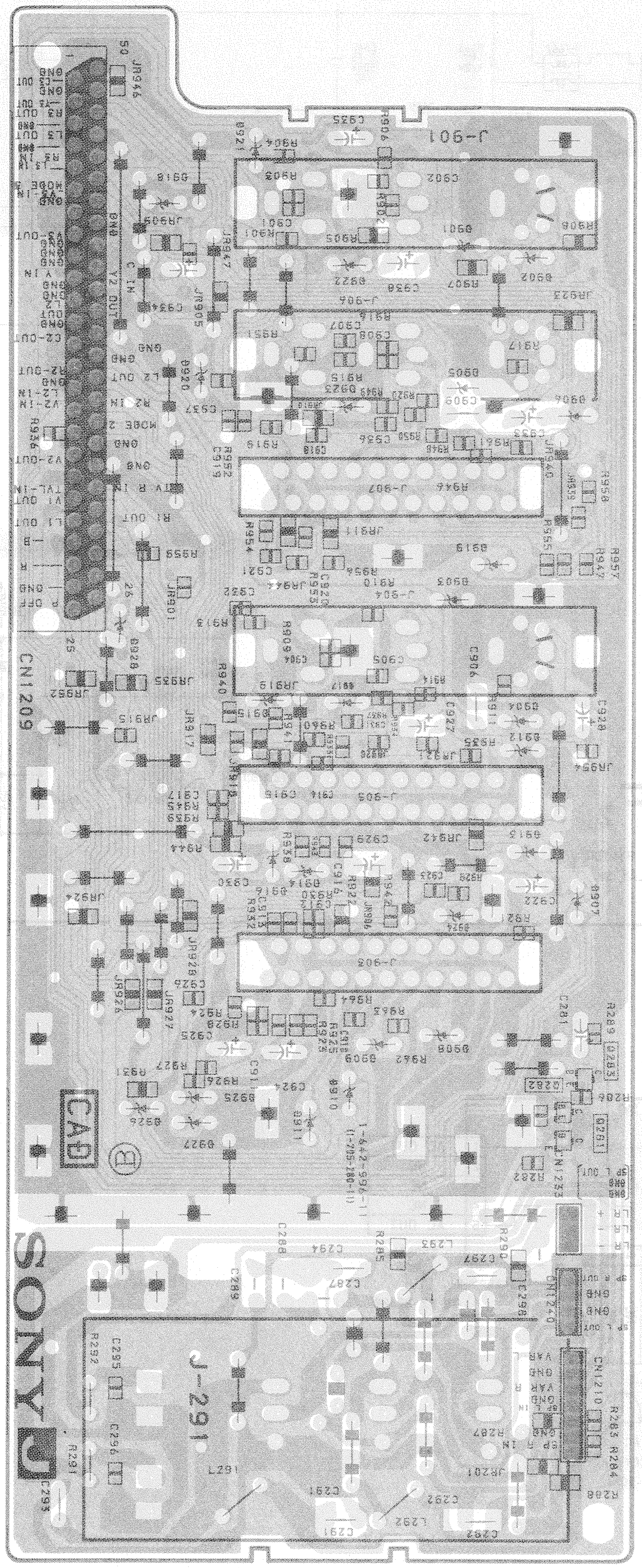
14
TO BUILT SPEAKER
TO A BOARD
CN0110
CN1240
3P
CN1210
7P
WHT-L
:S-MICRO
CN1233
3P
SP R OUT
GND
GND
SP L OUT
VAR L
GND
VAR R
GND
SP L IN
GND
SP R IN
LR+
LR-
LR-
R951
5.6k
:CHIP
R292
470
R291
470
C296
0.001
B:CHIP
C295
0.001
B:CHIP
J291
I/O-BOARD
L291
FXC-3B
R288
5.6k
:CHIP
C293
0.022
:F
C291
0.022
:F
L292
FXC-3B
C294
0.022
:F
C292
0.022
:F
R287
5.6k
1/8W
:CHIP
JW927
JW909
J-907
21P
:AV4
R954
390
:CHIP
C909
0.01
:F
D905
MTZJ-9.1B
PROTECT
R284
10k
:CHIP
R283
10k
:CHIP
R290
5.6k
1/8W
:CHIP
R289
1.8k
1/8W
:CHIP
R282
10k
:CHIP
R286
100k
:CHIP
C281
330
6.3V
10.5
10.7
Q281
2SC2412K
DC DET-1
Q282
2SC2412K
DC DET-2
Q283
2A1037K
DC DET-3
C933
47
16V
D906
MTZJ-9.1B
PROTECT
J
AUDIO IN/OUT,
Y-CHROMA IN/OUT,
VIDEO IN/OUT
B-SS4178<AEP>-J..

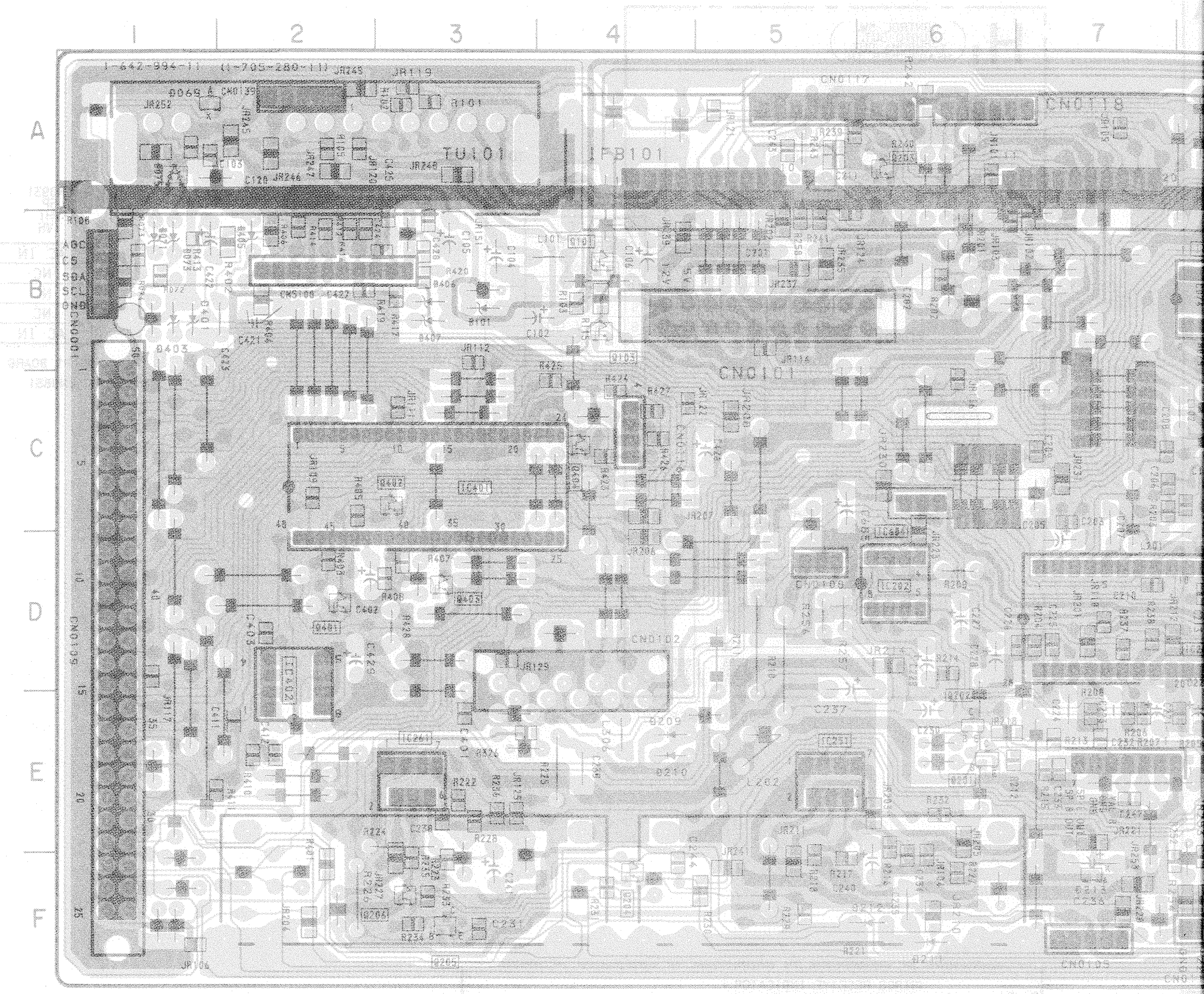
J AUDIO IN/OUT,
Y-CHROMA IN/OUT,
VIDEO IN/OUT

A TUNER, AUDIO, CONTROL, AUDIO AMP
AV SWITCH, RGB JUNGLE,
Y/C PROCESSOR

– J BOARD –


J-901
J-902
J-903
J-904
J-905
J-906
J-907
J-291
CN1209
CN1240
CN1210
SONY
CAD
1-642-996-11
(1-705-280-11)

– A BOARD –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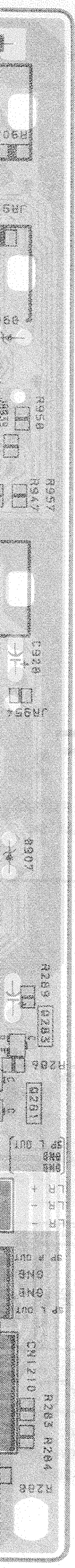
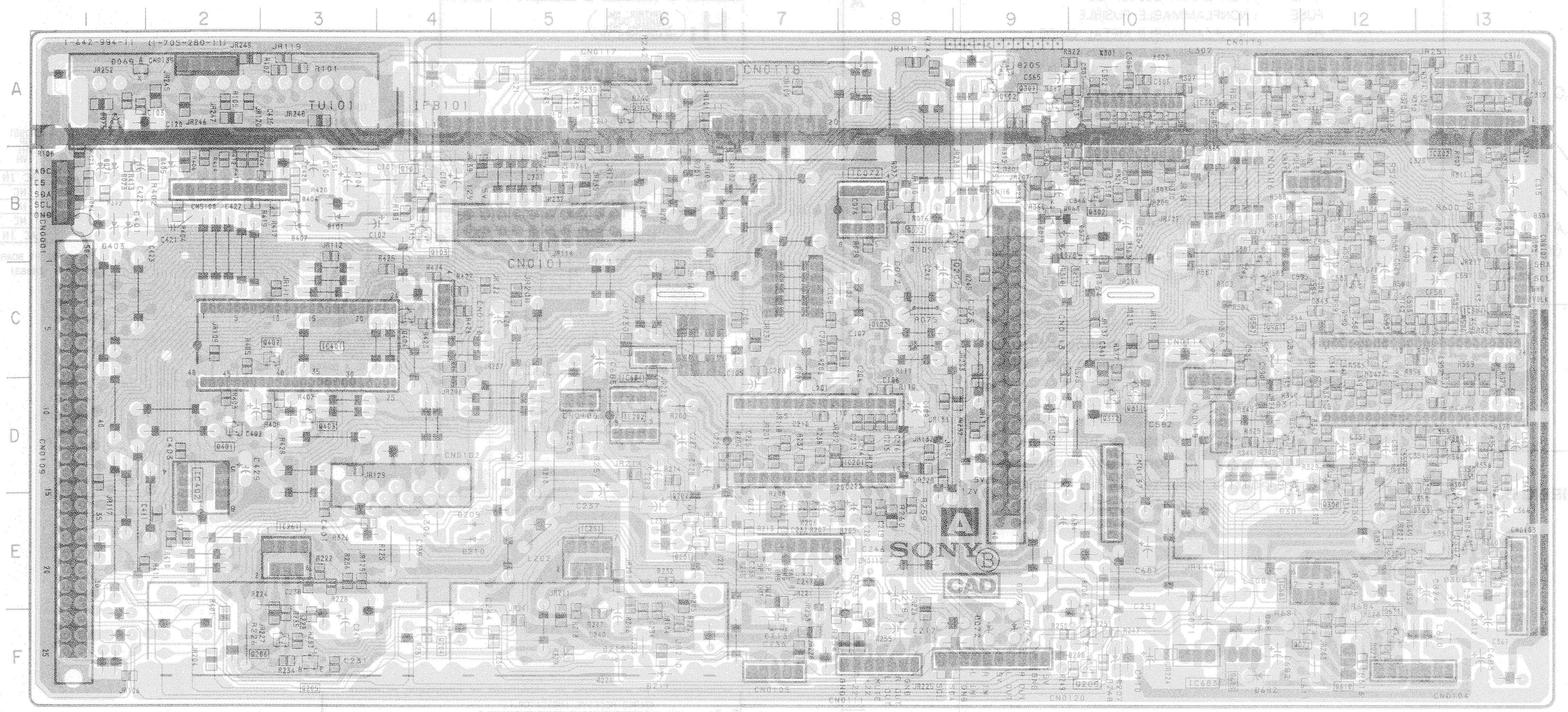
A
B
C
D
E
F
1-642-994-11
(1-705-280-11)
TU101
CN0101
CN0102
CN0103
CN0105
CN0118
IC401
IC402

UDIO, CONTROL, AUDIO AMP
CH, RGB JUNGLE,
CESSOR

– A BOARD –





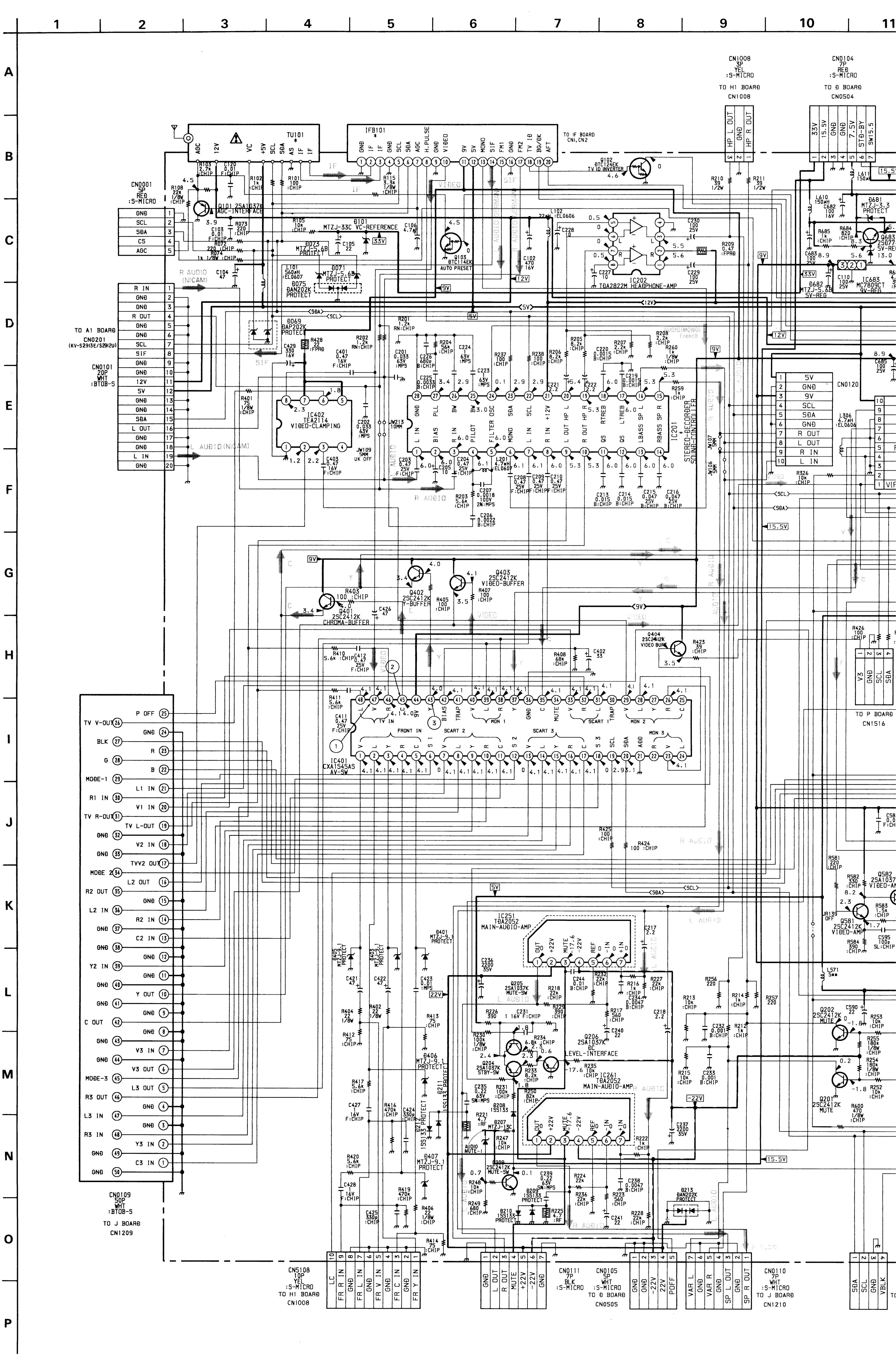
IC	
IC072	B – 8
IC201	D – 7
IC202	D – 6
IC251	E – 5
IC261	E – 3
IC301	A – 10
IC302	A – 13
IC304	C – 13
IC401	C – 3
IC402	D – 2
IC681	E – 12
IC683	F – 11
IC684	C – 6

TRANSISTOR	
Q071	F – 12
Q101	B – 4
Q102	A – 9
Q103	B – 4
Q201	E – 6
Q202	E – 6
Q203	A – 6
Q204	F – 4
Q205	F – 3
Q206	F – 3
Q207	B – 8
Q209	F – 10
Q301	A – 9
Q302	B – 10
Q303	E – 13
Q304	E – 13
Q306	E – 12
Q308	D – 12
Q309	D – 11
Q311	D – 10
Q312	D – 10
Q401	D – 2
Q402	C – 3
Q403	D – 3
Q404	C – 4
Q581	C – 11
Q582	C – 11
Q610	F – 12
Q611	F – 12
Q683	F – 11

DIODE	
D068	B – 9
D069	A – 1
D071	B – 1
D073	B – 1
D075	A – 1
D077	B – 10
D078	B – 9
D079	B – 9
D101	B – 3
D205	A – 9
D206	F – 10
D207	F – 10
D208	F – 10
D209	E – 4
D210	E – 4
D211	F – 6
D212	F – 6
D213	F – 7
D301	B – 11
D302	A – 12
D303	C – 11
D304	B – 13
D305	D – 11
D306	E – 13
D307	E – 13
D308	E – 13
D311	D – 12
D381	C – 11
D401	B – 1
D403	B – 1
D405	B – 2
D406	B – 3
D407	B – 3
D571	C – 12
D681	F – 11
D682	F – 11

Note :

- ░ : Pattern from the side which enables seeing.
- ░ : Pattern of the rear side.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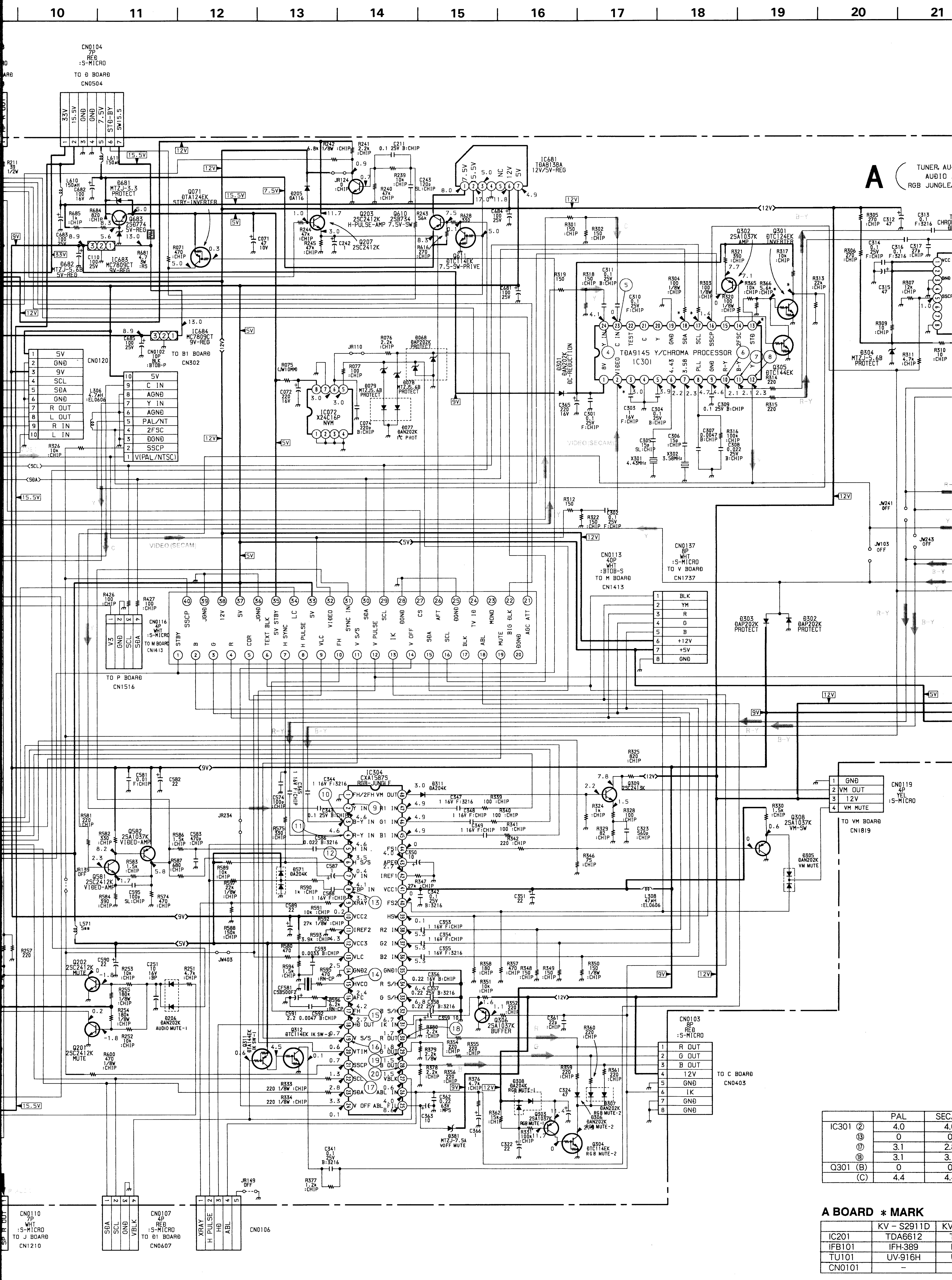
H
I
J
K
L
M
N
O
P
TU101
IFB101
TO IF BOARD CN1,CN2
CN0001 5P RED :S-MICRO
CN0101 20P WHT :BTOB-S
TO A1 BOARD CN0201 (KV-S2913E/S2912U)
CN1008 3P YEL :S-MICRO
TO H1 BOARD CN1008
CN0104 7P RED :S-MICRO
TO D BOARD CN0504
Q101 2SA1037K AGC-INTERFACE
D101 MTZJ-33C VC-REFERENCE
D073 MTZJ-5.6B PROTECT
D071 MTZJ-5.6B PROTECT
D075 DAN202K PROTECT
D069 DAP202K PROTECT
Q102 DTC124EK TV 10 INVERTER
Q103 DTC114EK AUTO PRESET
IC202 TDA2822M HEADPHONE-AMP
IC402 TEA2114 VIDEO-CLAMPING
IC201 STEREO-DECODER SOUND-CONTROLLER
Q401 2SC2412K CHROMA-BUFFER
Q402 2SC2412K Y-BUFFER
Q403 2SC2412K VIDEO-BUFFER
Q404 2SC2412K VIDEO BUFF
IC401 CXA1545AS AV-SW
CN0109 50P WHT :BTOB-S
TO J BOARD CN1209
IC251 TDA2052 MAIN-AUDIO-AMP
IC261 TDA2052 MAIN-AUDIO-AMP
Q205 2SA1037K MUTE-SW
Q206 2SA1037K DC LEVEL-INTERFACE
Q204 2SA1037K STBY-SW
Q209 2SC2412K MUTE-SW
D401 MTZJ-9.1 PROTECT
D406 MTZJ-9.1 PROTECT
D407 MTZJ-9.1 PROTECT
D213 DAN202K PROTECT
Q202 2SC2412K MUTE
Q201 2SC2412K MUTE
Q581 2SC2412K VIDEO-AMP
Q582 2SA1037 VIDEO-AMP
IC683 MC7809CT 9V-REG
D682 MTZJ-5.6B 5V-REG
D681 MTZJ-3.3 PROTECT
CN0120
TO P BOARD CN1516
CN5108 10P YEL :S-MICRO TO H1 BOARD CN1008
CN0111 7P BLK :S-MICRO
CN0105 5P WHT :S-MICRO TO D BOARD CN0505
CN0110 7P WHT :S-MICRO TO J BOARD CN1210
R AUDIO (NICAM)
L AUDIO (NICAM)
VIDEO
SIF
IF
R AUDIO
L AUDIO
5V
9V
12V
15.5V
33V
22V
-22V
SDA
SCL



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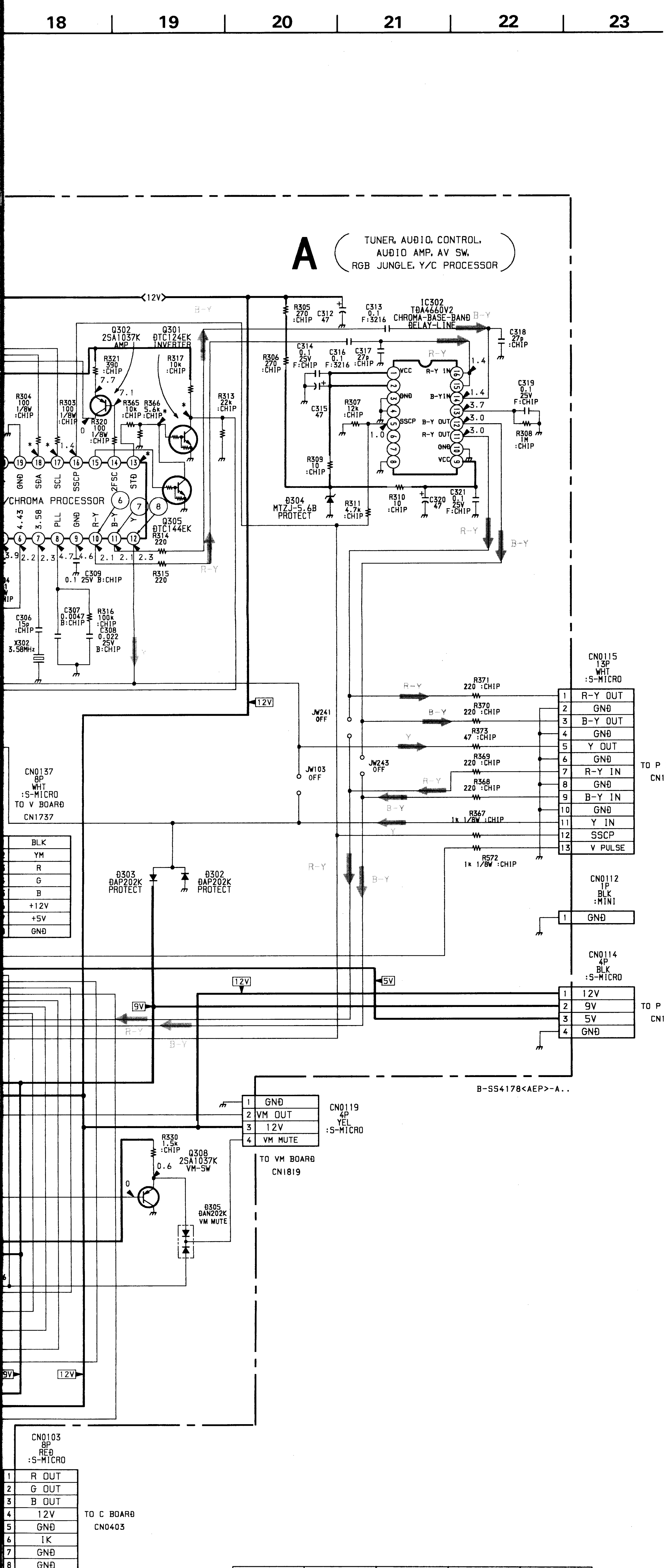
21
A
TUNER, AU
AUDIO
RGB JUNGLE
CN0104 7P RED :S-MICRO TO D BOARD CN0504
IC681 TDA8138A 12V/5V-REG
IC683 MC7809CT 9V-REG
IC684 MC7809CT 9V-REG
Q071 DTA124EK STBY-INVERTER
Q203 2SC2412K H-PULSE-AMP
Q610 2SB734 7.5V-SW
Q207 2SC2412K
Q611 DTC114EK 7.5-SW-DRIVE
Q683 2SD774 5V-REG
D681 MTZJ-3.3 PROTECT
D682 MTZJ-5.6B 5V-REG
CN0120
CN0102 10P BLK :BTOB-P TO B1 BOARD CN302
IC072 X24C16P NVM
D079 MTZJ5.6B PROTECT
D078 MTZJ5.6B PROTECT
D077 DAN202K I²C PROT
D068 DAP202K PROTECT
TDA9145 Y/CHROMA PROCESSOR IC301
D301 DAN202K DC-REDUCTION
Q302 2SA1037K AMP
Q301 DTC124EK INVERTER
Q305 DTC144EK
D304 MTZJ-5.6B PROTECT
X301 4.43MHz
X302 3.58MHz
VIDEO (SECAM)
CN0113 40P WHT :BTOB-S TO M BOARD CN1413
CN0116 4P WHT :S-MICRO TO M BOARD CN1413
TO P BOARD CN1516
CN0137 8P WHT :S-MICRO TO V BOARD CN1737
D303 DAP202K PROTECT
D302 DAP202K PROTECT
CN0119 4P YEL :S-MICRO TO VM BOARD CN1819
Q309 2SC2413K
Q308 2SA1037K VM-SW
D305 DAN202K VM MUTE
IC304 CXA1587S RGB-JUNGLE
Q582 2SA1037K VIDEO-AMP
Q581 2SC2412K VIDEO-AMP
D571 DA204K
D311 DA204K
Q202 2SC2412K MUTE
Q201 2SC2412K MUTE
D206 DAN202K AUDIO MUTE-1
Q312 DTC114EK IK SW-1
Q311 DTA144EK IK SW-1
Q306 2SA1037K BUFFER
D381 MTZJ-7.5A VOFF MUTE
D308 DA204K RGB MUTE-1
Q303 2SA1037K RGB MUTE-1
Q304 DTC114EK RGB MUTE-2
D307 DAN202K RGB MUTE-2
D306 DAN202K RGB MUTE-2
CN0103 8P RED :S-MICRO TO C BOARD CN0403
CN0110 7P WHT :S-MICRO TO J BOARD CN1210
CN0107 4P RED :S-MICRO TO D1 BOARD CN0607
CN0106

	PAL	SEC
IC301 ②	4.0	4.
⑬	0	0
⑰	3.1	2.
⑱	3.1	3.
Q301 (B)	0	0
(C)	4.4	4.

A BOARD * MARK

	KV – S2911D	KV
IC201	TDA6612	
IFB101	IFH-389	
TU101	UV-916H	
CN0101	–	

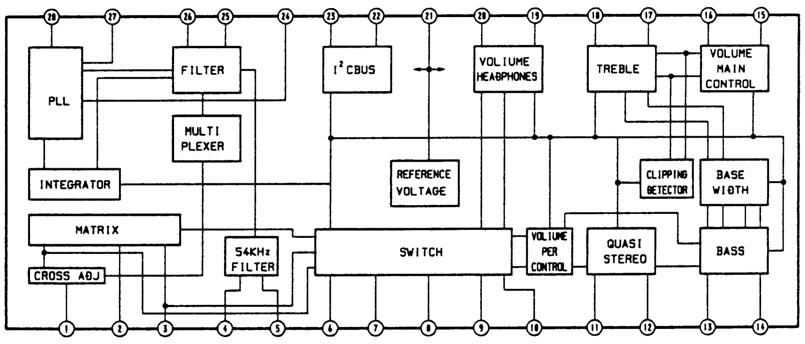

18
19
20
21
22
23
A
TUNER, AUDIO, CONTROL,
AUDIO AMP, AV SW,
RGB JUNGLE, Y/C PROCESSOR
IC302
TDA4660V2
CHROMA-BASE-BAND
DELAY-LINE
Q302
2SA1037K
AMP
Q301
DTC124EK
INVERTER
Q305
DTC144EK
/CHROMA PROCESSOR
X302
3.58MHz
D304
MTZJ-5.6B
PROTECT
D303
DAP202K
PROTECT
D302
DAP202K
PROTECT
CN0137
8P
WHT
:S-MICRO
TO V BOARD
CN1737
BLK
YM
R
G
B
+12V
+5V
GND
CN0115
13P
WHT
:S-MICRO
1 R-Y OUT
2 GND
3 B-Y OUT
4 GND
5 Y OUT
6 GND
7 R-Y IN
8 GND
9 B-Y IN
10 GND
11 Y IN
12 SSCP
13 V PULSE
TO P BOARD
CN1515
CN0112
1P
BLK
:MINI
1 GND
CN0114
4P
BLK
:S-MICRO
1 12V
2 9V
3 5V
4 GND
TO P BOARD
CN1514
B-SS4178<AEP>-A..
CN0119
4P
YEL
:S-MICRO
1 GND
2 VM OUT
3 12V
4 VM MUTE
TO VM BOARD
CN1819
Q308
2SA1037K
VM-SW
D305
DAN202K
VM MUTE
CN0103
8P
RED
:S-MICRO
1 R OUT
2 G OUT
3 B OUT
4 12V
5 GND
6 IK
7 GND
8 GND
TO C BOARD
CN0403

	PAL	SECAM	NTSC4.43	NTSC3.58
IC301 ②	4.0	4.0	4.0	4.8
⑬	0	0	4.9	4.9
⑰	3.1	2.8	2.5	2.5
⑱	3.1	3.1	2.8	2.8
Q301 (B)	0	0	1.6	1.6
(C)	4.4	4.4	0.1	0.1

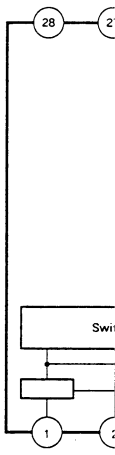
A BOARD ∗ MARK

	KV – S2911D	KV – S2911B	KV – S2913E	KV – S2912U
IC201	TDA6612	TDA6612	TDA6612	TDA6622
IFB101	IFH-389	IFH-389F	IFH-389	IFH-395
TU101	UV-916H	UV-916H	UV-916H	UV-944C
CN0101	–	–	20P	20P

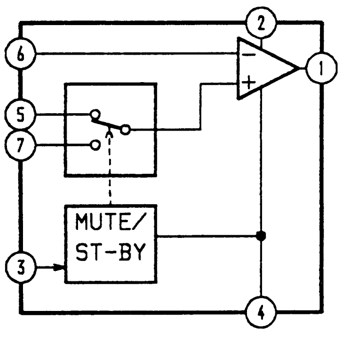
• A BOARD IC201 TDA6612


PLL
FILTER
MULTI PLEXER
INTEGRATOR
MATRIX
CROSS ADJ
I²CBUS
REFERENCE VOLTAGE
54KHz FILTER
SWITCH
VOLUME HEADPHONES
VOLUME PER CONTROL
QUASI STEREO
TREBLE
VOLUME MAIN CONTROL
CLIPPING DETECTOR
BASE WIDTH
BASS

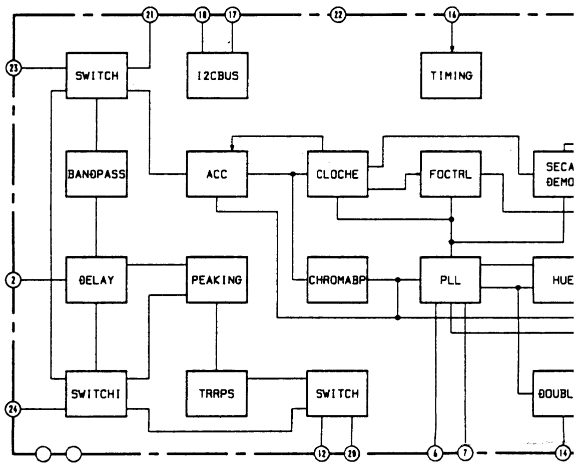
• A BOAR



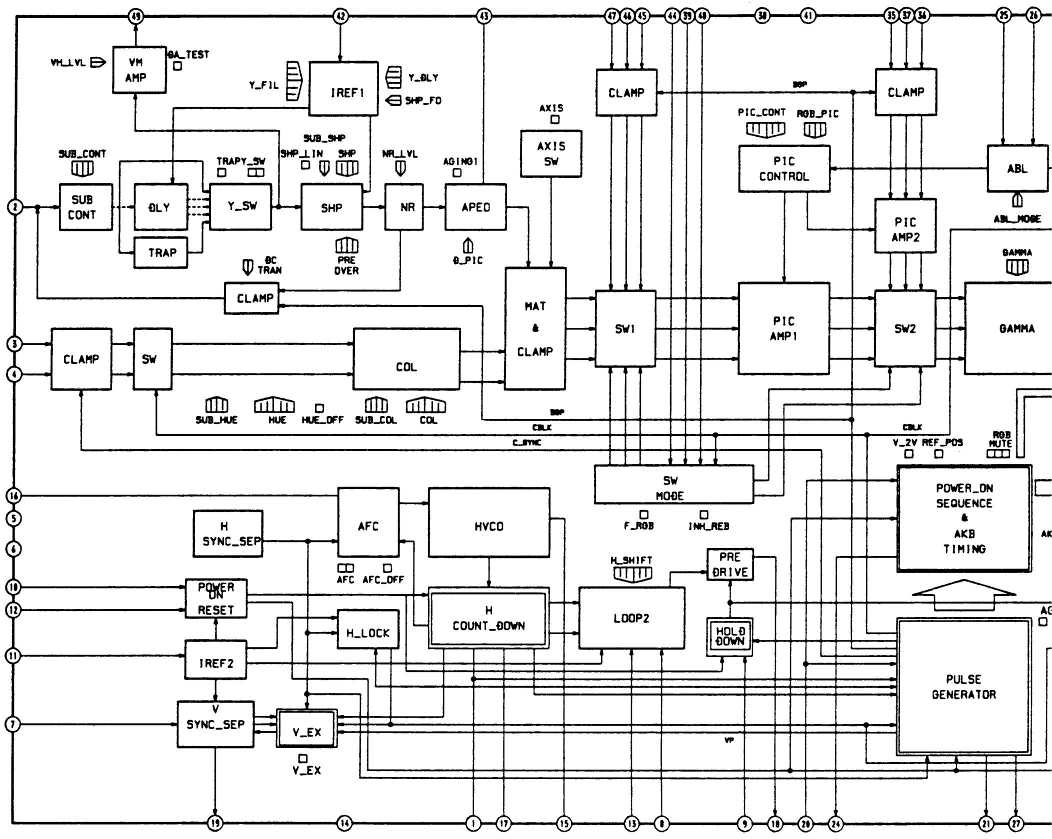
• A BOARD IC251/261 TDA2052



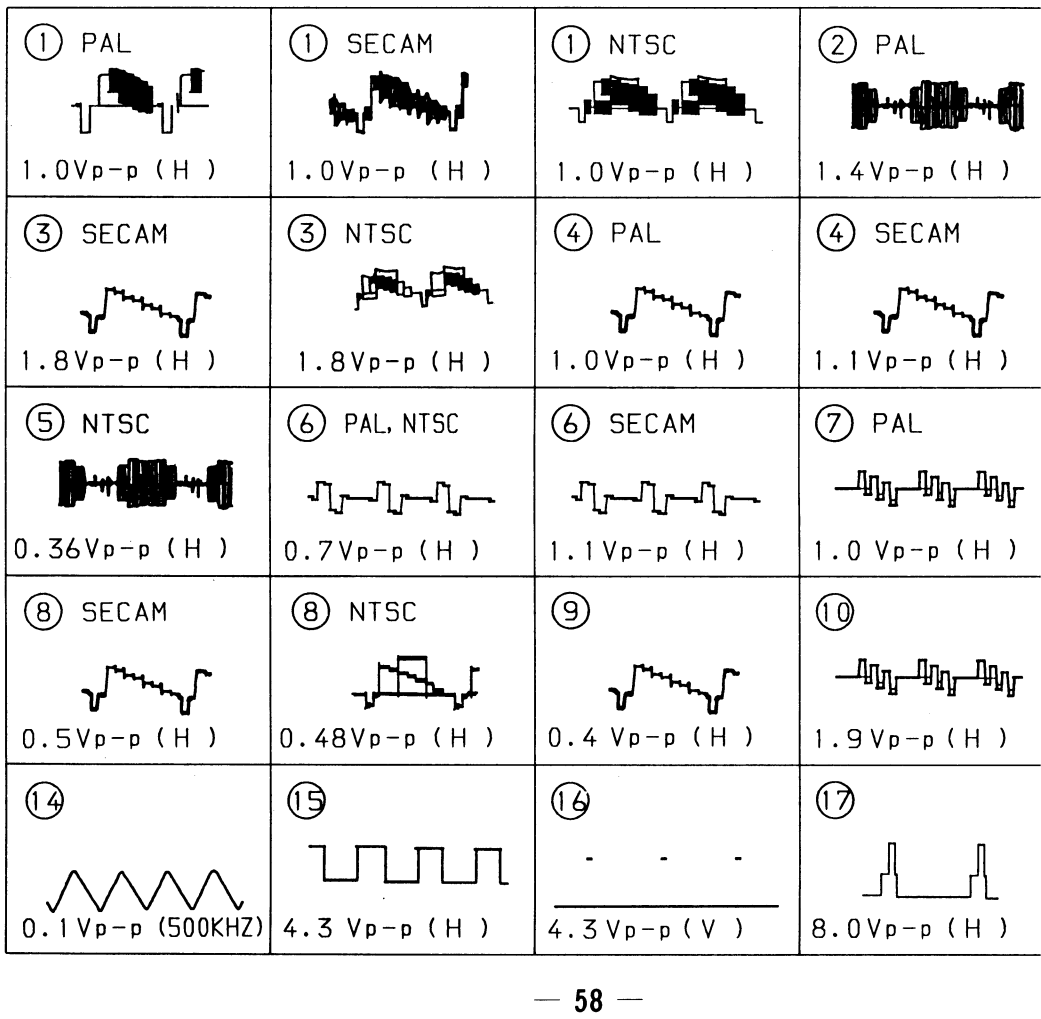
• A BOARD IC301 TDA9145


SWITCH
I2CBUS
TIMING
BANDPASS
ACC
CLOCHE
FOCTRL
SECA DEMO
DELAY
PEAKING
CHROMABP
PLL
HUE
SWITCHI
TRAPS
SWITCH
DOUBL

• A BOARD IC304 CXA1587S


VM AMP
IREF1
AXIS SW
CLAMP
PIC CONTROL
ABL
SUB CONT
DLY
Y_SW
SHP
NR
APED
TRAP
CLAMP
MAT & CLAMP
SW1
PIC AMP1
PIC AMP2
SW2
GAMMA
CLAMP
SW
COL
SW MODE
POWER_ON SEQUENCE & AKB TIMING
H SYNC_SEP
AFC
HVCO
PRE DRIVE
POWER ON RESET
H_LOCK
H COUNT_DOWN
LOOP2
HOLD DOWN
IREF2
V SYNC_SEP
V_EX
PULSE GENERATOR

• WAVEFORMS A BOARD



CN0115
13P
WHT
:S-MICRO

R-Y OUT
GND
B-Y OUT
GND
Y OUT
GND
R-Y IN
GND
B-Y IN
GND
Y IN
SSCP
V PULSE

TO P BOARD
CN1515

CN0112
1P
BLK
:MINI

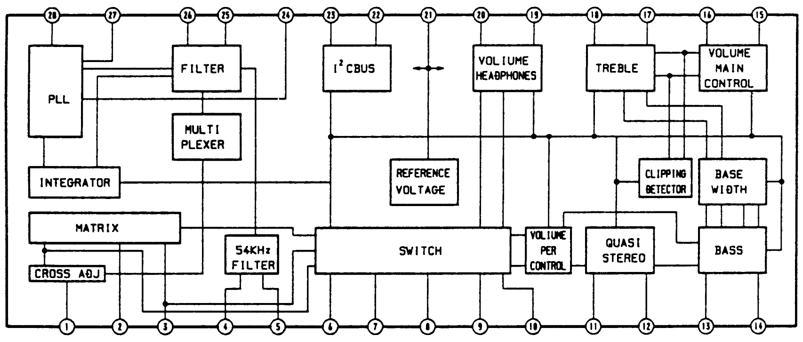
GND

CN0114
4P
BLK
:S-MICRO

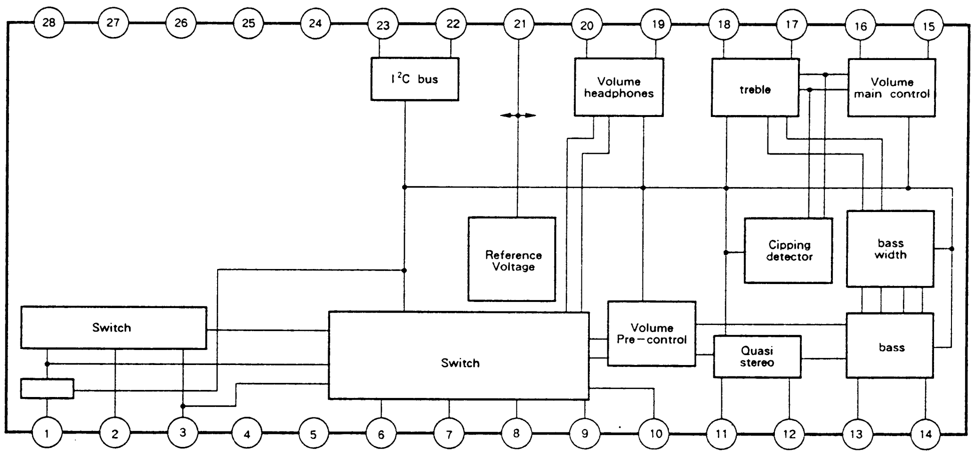
2V
9V
5V
GND

TO P BOARD
CN1514

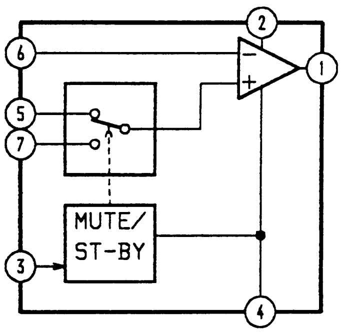
• A BOARD IC201 TDA6612


PLL
FILTER
MULTI PLEXER
INTEGRATOR
MATRIX
CROSS ADJ
54KHz FILTER
I²CBUS
REFERENCE VOLTAGE
SWITCH
VOLUME HEADPHONES
VOLUME PER CONTROL
TREBLE
VOLUME MAIN CONTROL
CLIPPING DETECTOR
BASE WIDTH
QUASI STEREO
BASS

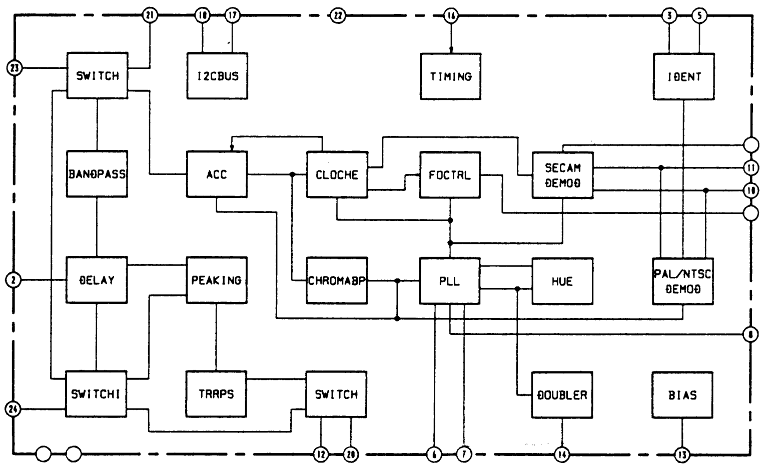
• A BOARD IC201 TDA6622 (UK Model only)


I²C bus
Volume headphones
treble
Volume main control
Reference Voltage
Cipping detector
bass width
Switch
Switch
Volume Pre-control
Quasi stereo
bass

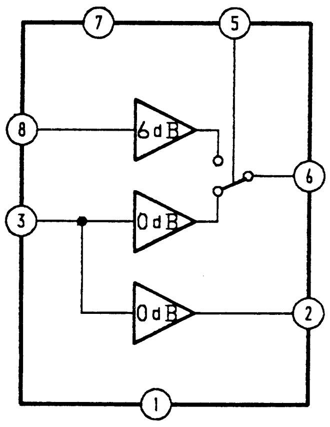
• A BOARD IC251/261 TDA2052



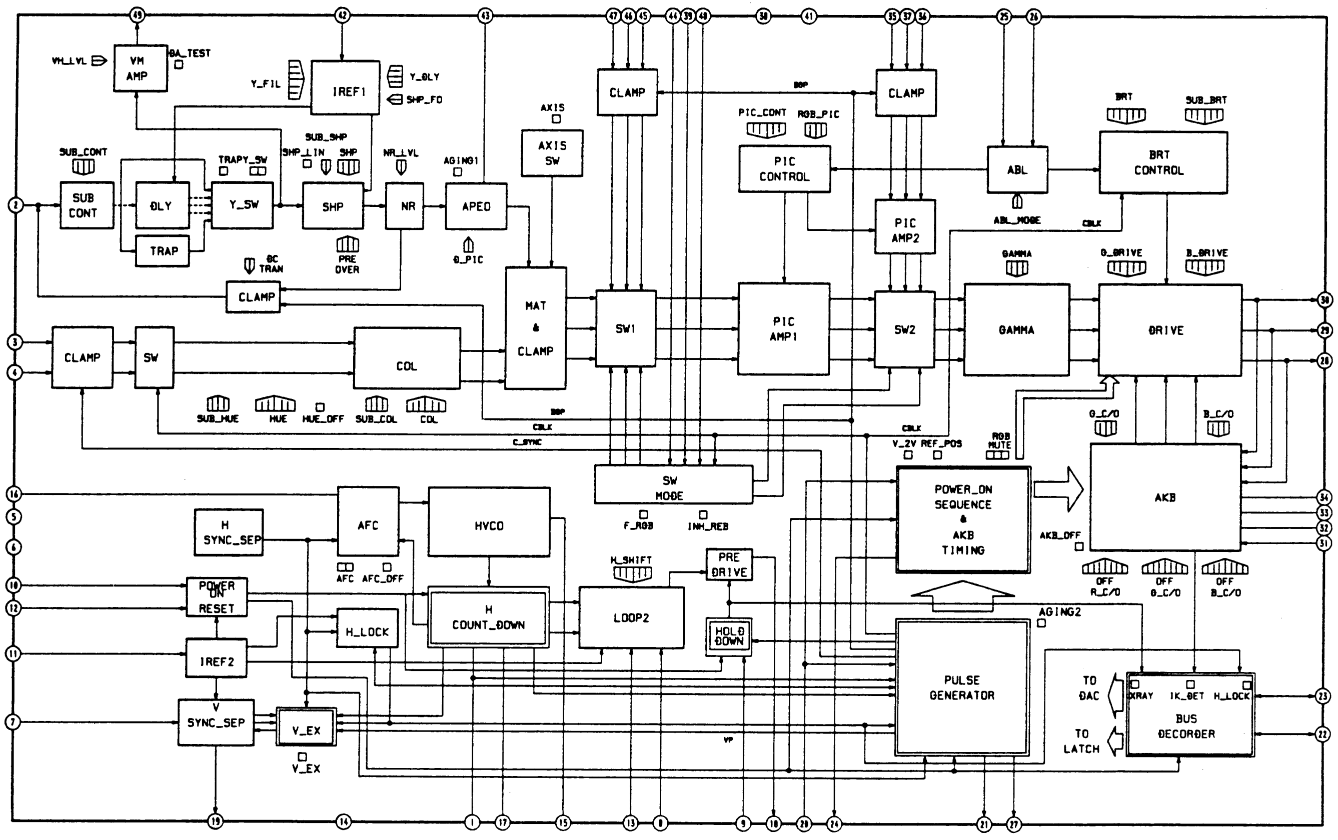
• A BOARD IC301 TDA9145


SWITCH
I2CBUS
TIMING
IDENT
BANDPASS
ACC
CLOCHE
FOCTRL
SECAM DEMOD
DELAY
PEAKING
CHROMABP
PLL
HUE
PAL/NTSC DEMOD
SWITCHI
TRAPS
SWITCH
DOUBLER
BIAS

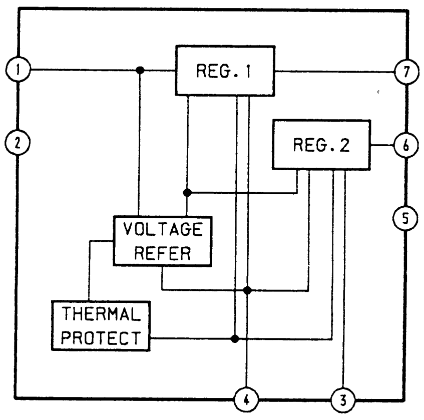
• A BOARD IC402 TEA2114



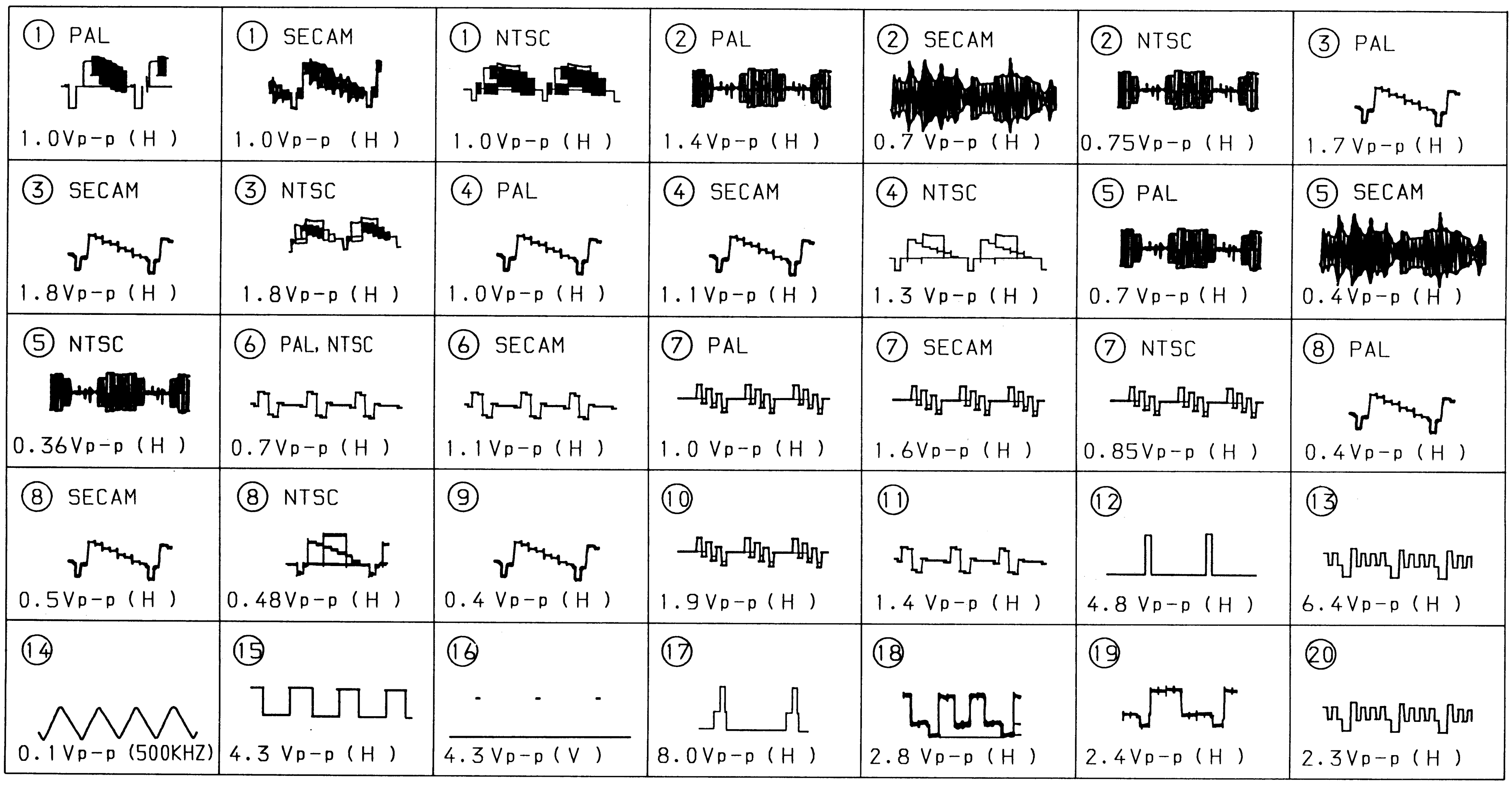
• A BOARD IC304 CXA1587S


VM_LVL
VM AMP
DA_TEST
Y_FIL
IREF1
Y_DLY
SHP_FO
SUB_CONT
SUB CONT
DLY
TRAPY_SW
Y_SW
SUB_SHP
SHP_LIN
SHP
NR_LVL
NR
AGING1
APED
TRAP
DC TRAN
PRE OVER
D_PIC
AXIS
AXIS SW
CLAMP
PIC_CONT
RGB_PIC
PIC CONTROL
CLAMP
PIC AMP2
BRT
SUB_BRT
ABL
ABL_MODE
BRT CONTROL
CBLK
GAMMA
D_DRIVE
B_DRIVE
CLAMP
MAT & CLAMP
SW1
PIC AMP1
SW2
GAMMA
DRIVE
CLAMP
SW
COL
SUB_HUE
HUE
HUE_OFF
SUB_COL
COL
BBP
CBLK
C_SYNC
V_2V REF_POS
RGB MUTE
D_C/D
B_C/D
SW MODE
F_RGB
INH_RGB
POWER_ON SEQUENCE & AKB TIMING
AKB
AKB_OFF
OFF R_C/D
OFF D_C/D
OFF B_C/D
H SYNC_SEP
AFC
AFC
AFC_OFF
HVCO
H_SHIFT
PRE DRIVE
POWER ON RESET
H_LOCK
H COUNT_DOWN
LOOP2
HOLD DOWN
IREF2
V SYNC_SEP
V_EX
V_EX
AGING2
PULSE GENERATOR
TO DAC
TO LATCH
XRAY
IK_DET
H_LOCK
BUS DECORDER
VP

• A BOARD IC681 TDA8138

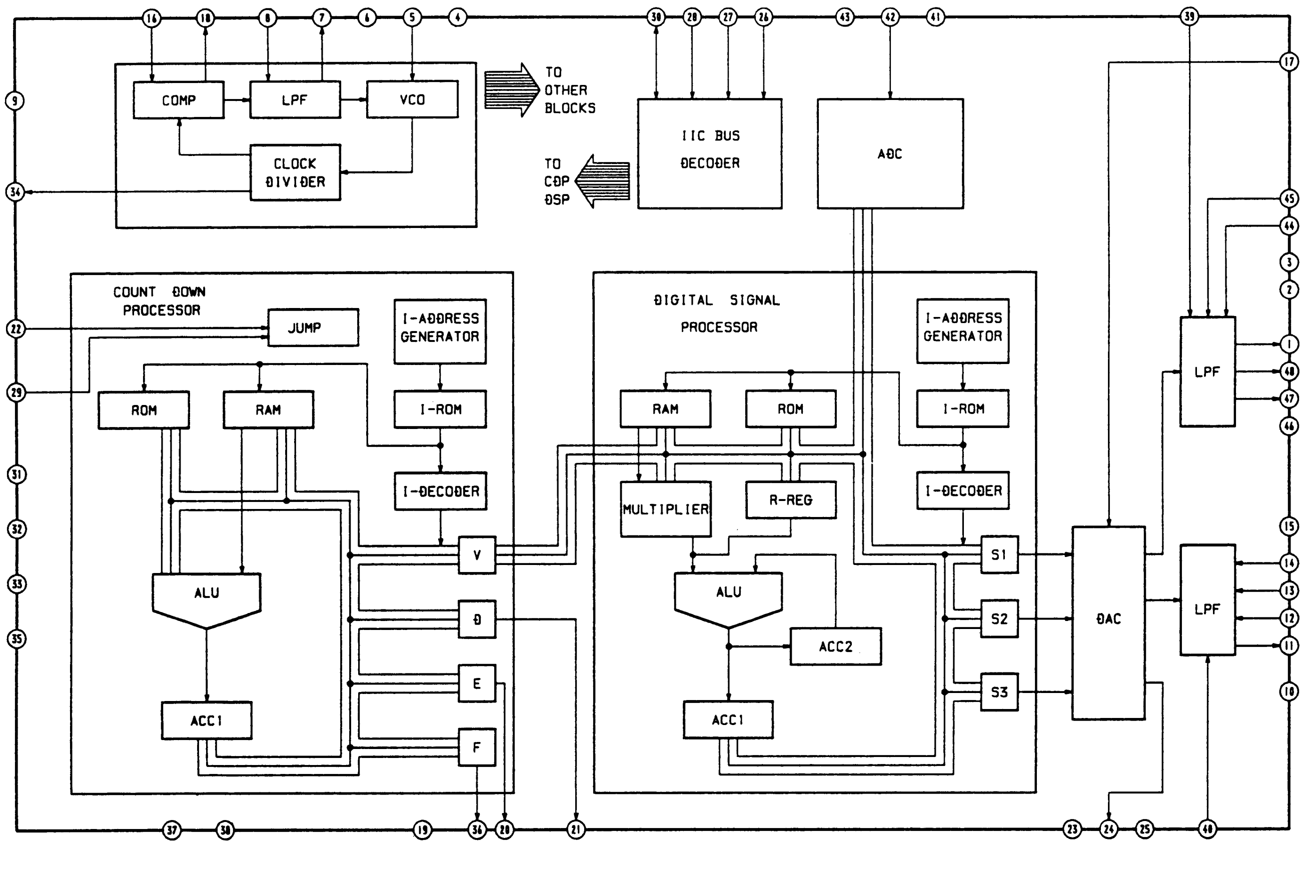

REG. 1
REG. 2
VOLTAGE REFER
THERMAL PROTECT

• WAVEFORMS A BOARD

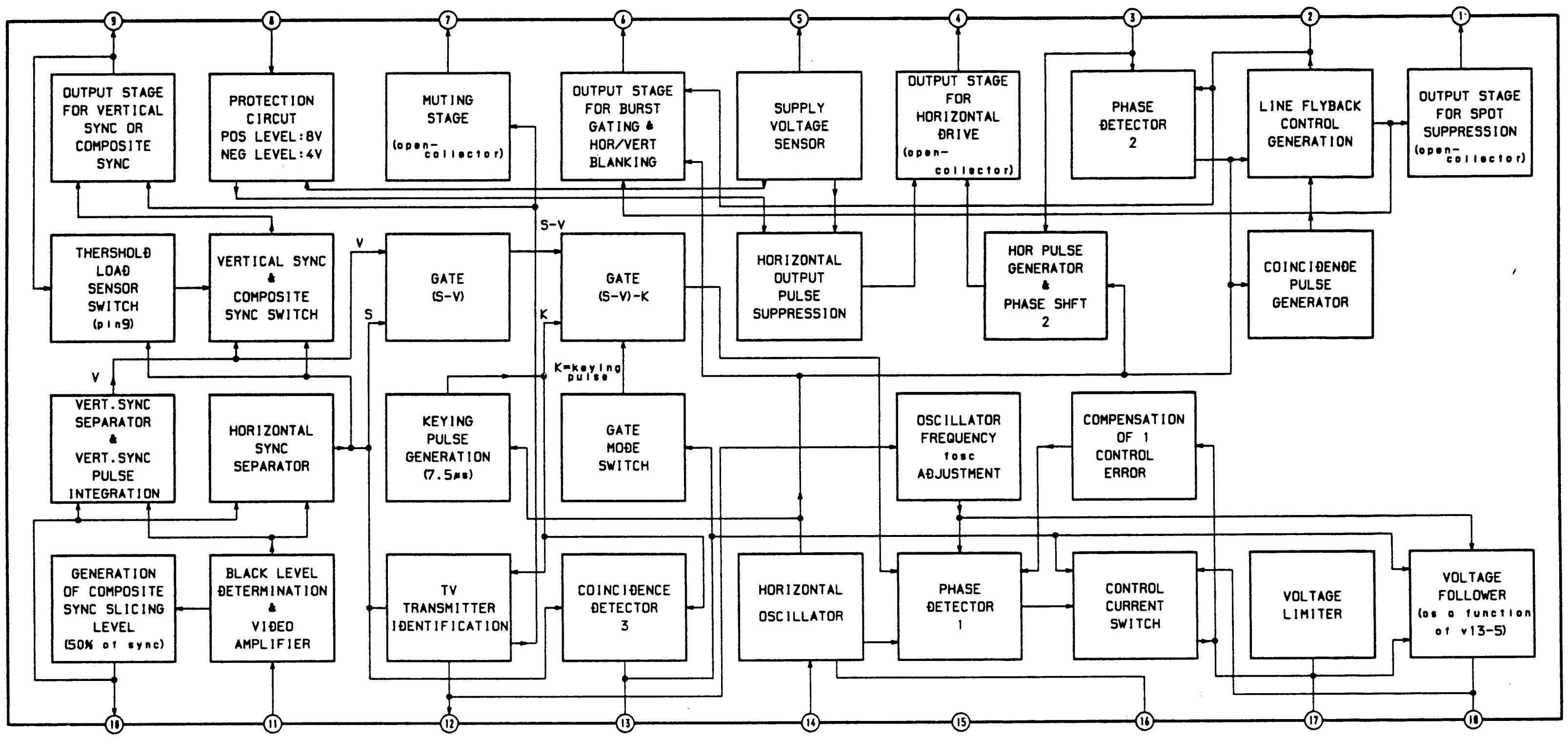


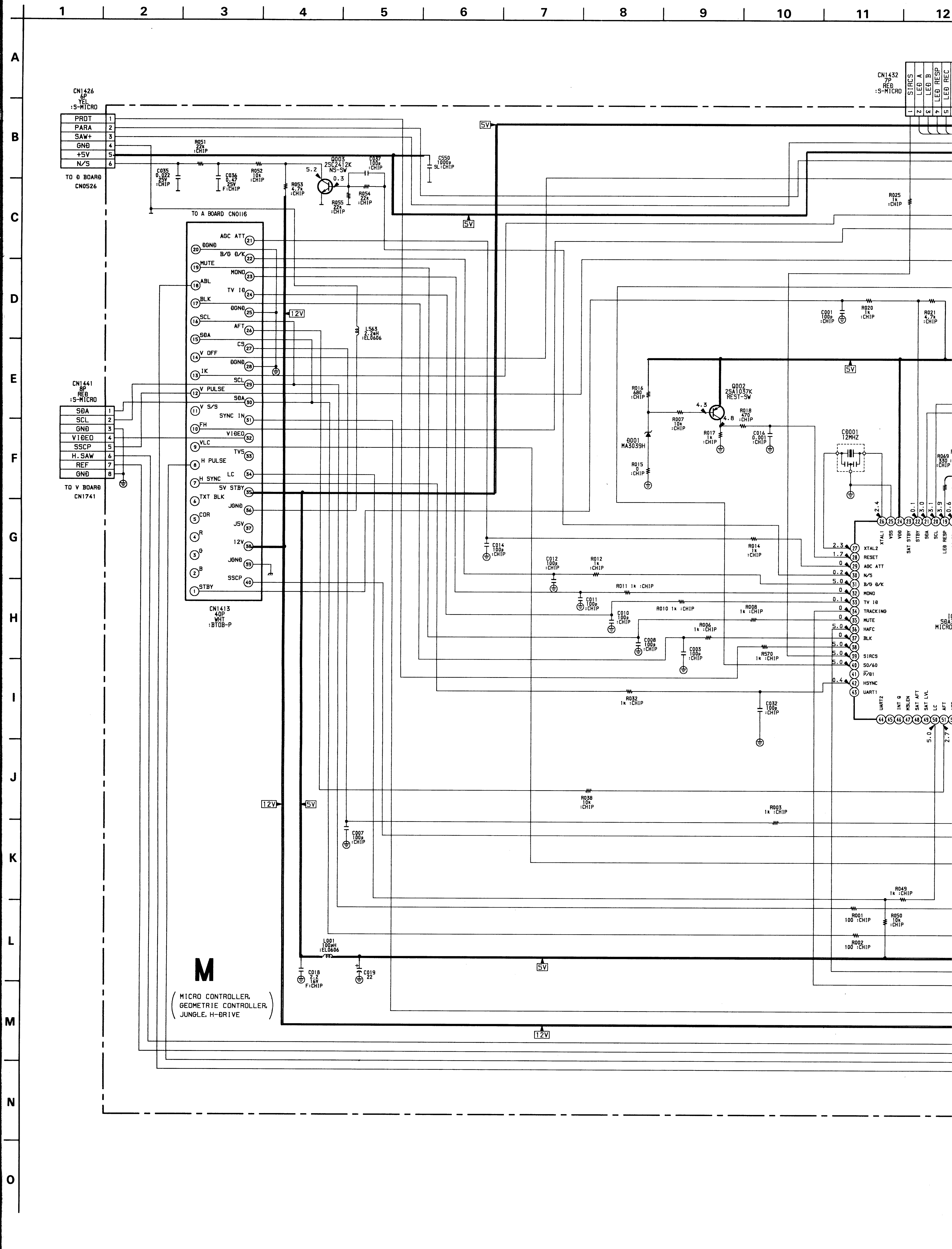
V-S2912U
TDA6622
IFH-395
UV-944C
20P

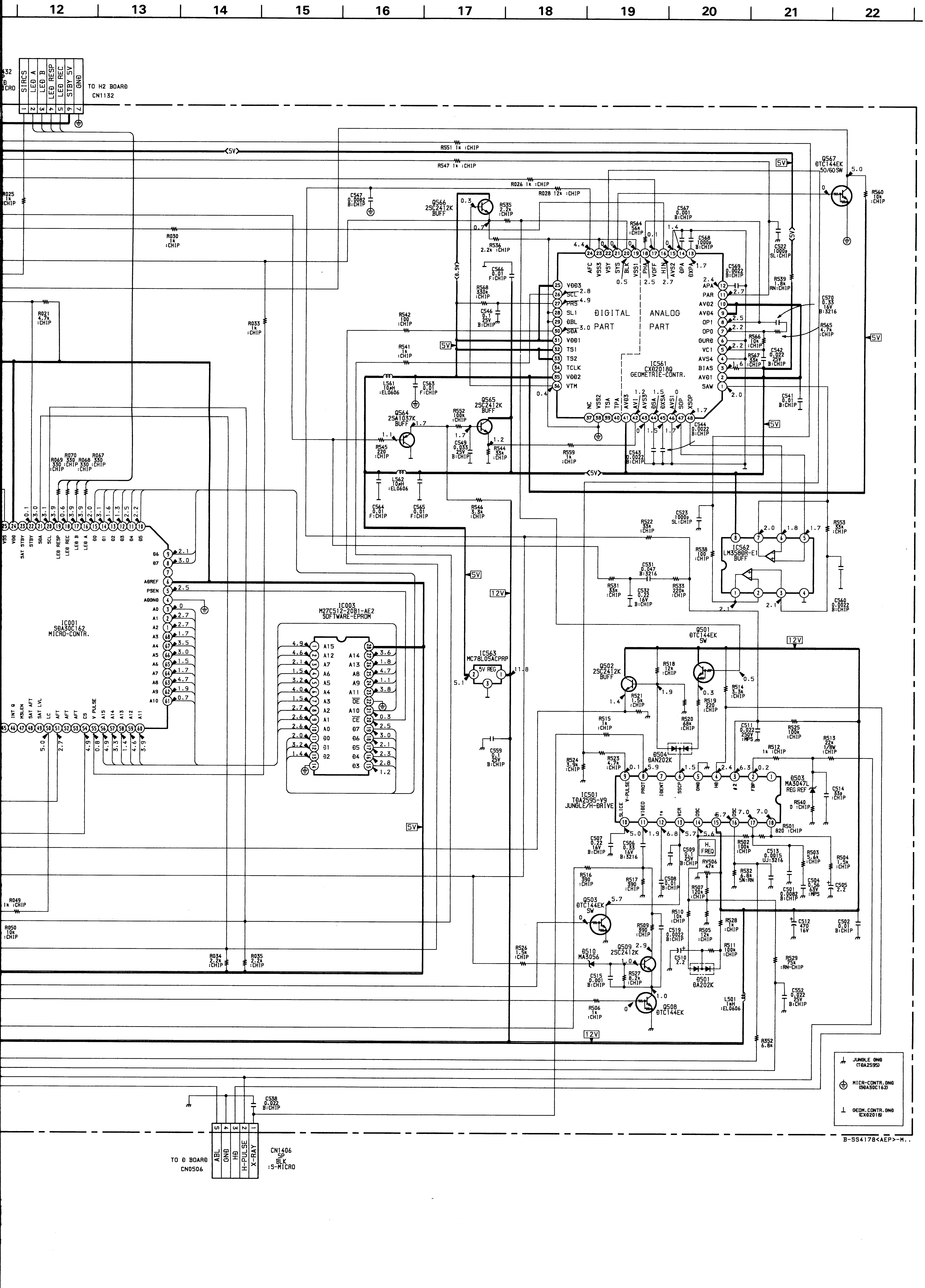
- **M BOARD IC561 CXD2018Q**


16
18
8
7
6
5
4
30
28
27
26
43
42
41
39
17
9
34
COMP
LPF
VCO
CLOCK DIVIDER
TO OTHER BLOCKS
TO CDP DSP
IIC BUS DECODER
ADC
45
44
3
2
COUNT DOWN PROCESSOR
JUMP
I-ADDRESS GENERATOR
22
29
ROM
RAM
I-ROM
I-DECODER
31
32
33
35
ALU
ACC1
V
D
E
F
DIGITAL SIGNAL PROCESSOR
I-ADDRESS GENERATOR
RAM
ROM
I-ROM
MULTIPLIER
R-REG
I-DECODER
ALU
ACC2
ACC1
S1
S2
S3
DAC
LPF
1
48
47
46
15
14
13
12
11
10
LPF
37
38
19
36
20
21
23
24
25
40

- **M BOARD IC501 TDA2595-V9**


9
8
7
6
5
4
3
2
1
OUTPUT STAGE FOR VERTICAL SYNC OR COMPOSITE SYNC
PROTECTION CIRCUT POS LEVEL:8V NEG LEVEL:4V
MUTING STAGE (open-collector)
OUTPUT STAGE FOR BURST GATING & HOR/VERT BLANKING
SUPPLY VOLTAGE SENSOR
OUTPUT STAGE FOR HORIZONTAL DRIVE (open-collector)
PHASE DETECTOR 2
LINE FLYBACK CONTROL GENERATION
OUTPUT STAGE FOR SPOT SUPPRESSION (open-collector)
S-V
THERSHOLD LOAD SENSOR SWITCH (pin9)
VERTICAL SYNC & COMPOSITE SYNC SWITCH
V
GATE (S-V)
S
K
GATE (S-V)-K
HORIZONTAL OUTPUT PULSE SUPPRESSION
HOR PULSE GENERATOR & PHASE SHFT 2
COINCIDENDE PULSE GENERATOR
V
K=keying pulse
VERT.SYNC SEPARATOR & VERT.SYNC PULSE INTEGRATION
HORIZONTAL SYNC SEPARATOR
KEYING PULSE GENERATION (7.5μs)
GATE MODE SWITCH
OSCILLATOR FREQUENCY fosc ADJUSTMENT
COMPENSATION OF 1 CONTROL ERROR
GENERATION OF COMPOSITE SYNC SLICING LEVEL (50% of sync)
BLACK LEVEL DETERMINATION & VIDEO AMPLIFIER
TV TRANSMITTER IDENTIFICATION
COINCIDENCE DETECTOR 3
HORIZONTAL OSCILLATOR
PHASE DETECTOR 1
CONTROL CURRENT SWITCH
VOLTAGE LIMITER
VOLTAGE FOLLOWER (as a function of v13-5)
10
11
12
13
14
15
16
17
18

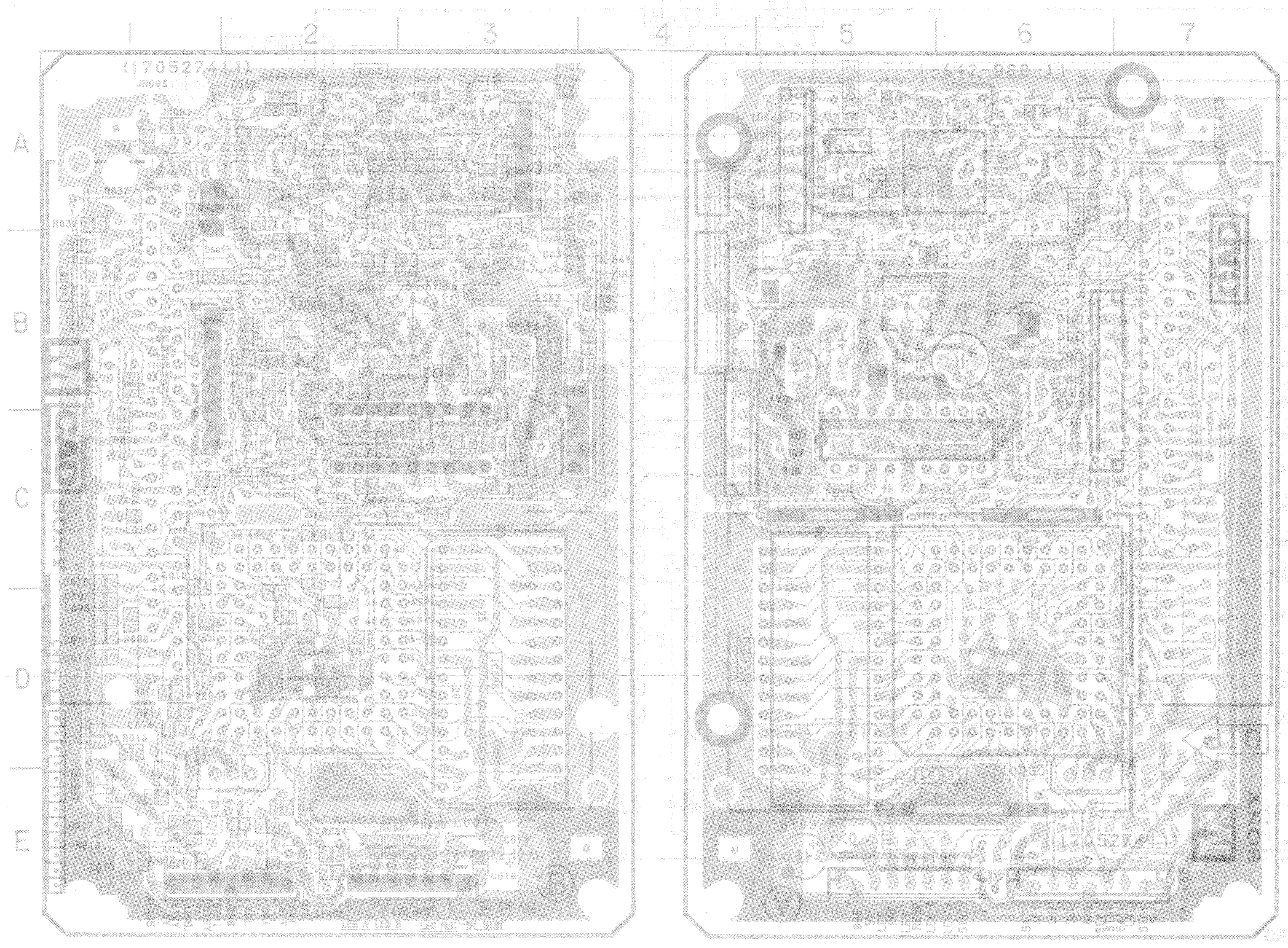

1
2
3
4
5
6
7
8
9
10
11
12
A
B
C
D
E
F
G
H
I
J
K
L
M
N
O
CN1426
6P
YEL
:S-MICRO
PROT
PARA
SAW+
GND
+5V
N/S
TO D BOARD
CN0526
R051
22k
:CHIP
C035
0.022
25V
:CHIP
C036
0.47
25V
F:CHIP
R052
10k
:CHIP
R053
4.7k
:CHIP
Q003
2SC2412K
NS-SW
5.2
0.3
R055
22k
:CHIP
C037
100p
:CHIP
R054
22k
:CHIP
C550
1000p
SL:CHIP
5V
TO A BOARD CN0116
AGC ATT
DGND
B/G D/K
MUTE
MONO
ABL
TV ID
BLK
DGND
SCL
AFT
SDA
CS
V OFF
DGND
IK
SCL
V PULSE
SDA
V S/S
SYNC IN
FH
VIDEO
VLC
TVS
H PULSE
LC
H SYNC
5V STBY
TXT BLK
JGND
COR
J5V
R
12V
G
JGND
B
SSCP
STBY
CN1413
40P
WHT
:BTOB-P
12V
L563
2.2mH
:EL0606
CN1441
8P
RED
:S-MICRO
SDA
SCL
GND
VIDEO
SSCP
H.SAW
REF
GND
TO V BOARD
CN1741
C014
100p
:CHIP
C012
100p
:CHIP
R012
1k
:CHIP
R011 1k :CHIP
C011
100p
:CHIP
C010
100p
:CHIP
R010 1k :CHIP
R008
1k :CHIP
C008
100p
:CHIP
R006
1k :CHIP
C003
100p
:CHIP
R570
1k :CHIP
R032
1k :CHIP
C032
100p
:CHIP
R014
1k
:CHIP
R016
680
:CHIP
R007
10k
:CHIP
Q002
2SA1037K
REST-SW
4.3
4.8
R018
470
:CHIP
R017
1k
:CHIP
C016
0.001
:CHIP
D001
MA3039H
R015
0
:CHIP
5V
C001
100p
:CHIP
R020
1k
:CHIP
R021
4.7k
:CHIP
R025
1k
:CHIP
CN1432
7P
RED
:S-MICRO
SIRCS
LED A
LED B
LED RESP
LED REC
CD001
12MHZ
R069
330
:CHIP
2.4
0.1
3.0
3.1
3.9
0.6
XTAL1
VSS
VDD
SAT STBY
STBY
SDA
SCL
LED RESP
2.3
1.7
0
0.2
5.0
0
0.1
0
0
5.0
0
5.0
5.0
5.0
0.4
XTAL2
RESET
AGC ATT
N/S
B/G D/K
MONO
TV ID
TRACKING
MUTE
HAFC
BLK
SIRCS
50/60
P/D1
HSYNC
UART1
UART2
INT Q
M3LEN
SAT AFT
SAT LVL
LC
AFT
5.0
2.7
SDA
MICRO
R038
10k
:CHIP
R003
1k :CHIP
C007
100p
:CHIP
R049
1k :CHIP
R001
100 :CHIP
R050
10k
:CHIP
R002
100 :CHIP
L001
100mH
:EL0606
C018
2.2
16V
F:CHIP
C019
22
M
MICRO CONTROLLER,
GEOMETRIE CONTROLLER,
JUNGLE, H-DRIVE


12
13
14
15
16
17
18
19
20
21
22
SIRCS
LED A
LED B
LED RESP
LED REC
STBY 5V
GND
TO H2 BOARD
CN1132
<5V>
R551 1k :CHIP
R547 1k :CHIP
R026 1k :CHIP
R028 12k :CHIP
Q567
DTC144EK
50/60SW
R560 10k :CHIP
C547 0.0082 B:CHIP
Q566
2SC2412K
BUFF
R535 2.2k :CHIP
R536 2.2k :CHIP
R030 1k :CHIP
R025 1k :CHIP
C567 0.001 B:CHIP
C568 1000p B:CHIP
R564 56k :CHIP
C522 1000p SL:CHIP
C569 0.0022 B:CHIP
R539 1.8k RN:CHIP
C570 0.33 16V B:3216
R565 4.7k :CHIP
C566 0.01 F:CHIP
R568 330k :CHIP
C546 0.1 25V B:CHIP
R021 4.7k :CHIP
R033 1k :CHIP
R542 100 :CHIP
R541 1k :CHIP
DIGITAL PART
ANALOG PART
IC561
CXD2018Q
GEOMETRIE-CONTR.
VDD3
SCL
PRS
SL1
DBL
SDA
VDD1
TS1
TS2
TCLK
VDD2
VTM
AFC
VSS3
VSY
SYS
BLK
VSS1
PHA
VOFF
HIN
AVS2
DPA
DXPA
APA
PAR
AVD2
AVD4
OP1
OPO
GURD
VC1
AVS4
BIAS
AVD1
SAW
NC
VSS2
TSA
TPA
AVD3
AV1
AVS3
DSA
DXSA
AVS1
SOP
XSOP
R566 10k :CHIP
R567 33k :CHIP
C542 0.022 25V B:CHIP
L561 10μH :EL0606
C563 0.01 F:CHIP
Q565
2SC2412K
BUFF
Q564
2SA1037K
BUFF
R552 100k :CHIP
C549 0.033 25V B:CHIP
R544 33k :CHIP
R545 220 :CHIP
R559 1k :CHIP
C543 0.0022 B:CHIP
C544 0.0022 B:CHIP
C541 0.01 B:CHIP
R069 330 :CHIP
R070 330 :CHIP
R068 330 :CHIP
R067 330 :CHIP
L562 10μH :EL0606
C564 0.01 F:CHIP
C565 0.01 F:CHIP
R546 3.3k :CHIP
C523 1000p SL:CHIP
R522 33k :CHIP
R553 33k :CHIP
R538 100 :CHIP
IC562
LM358DR-E1
BUFF
C531 0.047 B:3216
R531 33k :CHIP
C532 0.22 16V B:CHIP
R533 220k :CHIP
C560 0.0022 B:CHIP
IC001
SDA30C162
MICRO-CONTR.
VSS
VDD
SAT STBY
STBY
SDA
SCL
LED RESP
LED REC
LED B
LED A
D0
D1
D2
D3
D4
D5
D6
D7
AGREF
PSEN
AGGND
A0
A1
A2
A3
A4
A5
A6
A7
A8
A9
A10
INT Q
MSLEN
SAT AFT
SAT LVL
LC
AFT
AFT
AFT
CS
V PULSE
A15
A14
A13
A12
A11
IC003
M27C512-20B1-AE2
SOFTWARE-EPROM
A15
A12
A7
A6
A5
A4
A3
A2
A1
A0
D0
D1
D2
A14
A13
A8
A9
A11
OE
A10
CE
D7
D6
D5
D4
D3
5V
12V
IC563
MC78L05ACPRP
5V REG
C559 0.1 25V B:CHIP
Q501
DTC144EK
SW
Q502
2SC2412K
BUFF
R518 12k :CHIP
R521 1.5k :CHIP
R520 68k :CHIP
R519 220 :CHIP
R514 3.3k :CHIP
R515 1k :CHIP
D504
DAN202K
C511 0.022 250V :MPS
R525 100k :CHIP
R513 22k 1/8W :CHIP
R512 1k :CHIP
R524 3.9k :CHIP
R523 4.7k :CHIP
IC501
TDA2595-V9
JUNGLE/H-DRIVE
V-PULSE
PROT
IDENT
SSCP
GND
HD
φ2
FBP
SLICE
VIDEO
φ1
VCR
OSC
OSC
D503
MA3047L
REG REF
C514 33p :CHIP
R540 0 :CHIP
R501 820 :CHIP
C507 0.22 16V B:CHIP
C506 0.33 16V B:3216
C509 0.1 25V B:CHIP
H. FREQ
RV506 47k
R502 100k :CHIP
C513 0.0015 UJ:3216
R503 5.6k :CHIP
R504 1.5k :CHIP
R532 6.8k SM:RN
C504 0.56 63V :MPS
C505 2.2
C501 0.0082 B:CHIP
R516 390 :CHIP
R517 390 :CHIP
C508 0.01 B:CHIP
R507 120k :CHIP
Q503
DTC144EK
SW
R509 390 :CHIP
R510 10k :CHIP
C519 0.0022 B:CHIP
R505 12k :CHIP
R528 1k :CHIP
C512 470 16V
C502 0.01 B:CHIP
R511 100k :CHIP
R526 1.5k :CHIP
D510
MA3056
Q509
2SC2412K
C510 2.2
D501
DA202K
R529 75k :RN-CHIP
C515 0.001 B:CHIP
R527 8.2k :CHIP
L501 1mH :EL0606
C552 0.022 25V B:CHIP
R506 1k :CHIP
Q508
DTC144EK
R352 6.8k
R049 1k :CHIP
R050 10k :CHIP
R034 2.2k :CHIP
R035 2.2k :CHIP
JUNGLE GND (TDA2595)
MICR-CONTR. GND (SDA30C162)
GEOM. CONTR. GND (CX0201B)
C538 0.022 B:CHIP
ABL
GND
HD
H-PULSE
X-RAY
TO D BOARD
CN0506
CN1406
5P
BLK
:S-MICRO

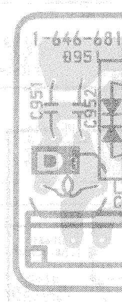
B-SS4178<AEP>-M..

M [MICRO CONTROLLER, GEOMETRIE CONTROLLER JUNGLE, H-DRIVE] **D** [H/V OUT, PIN OUT, POWER SUPPLY] **D3** [RECT 15.5V]

– M BOARD –


1-642-988-11
M
CAD
SONY
A
B
C
D
E
1
2
3
4
5
6
7

– D3 BOA



IC	
IC001	D – 2
IC003	D – 3
IC501	C – 3
IC561	A – 6
IC562	A – 5
IC563	A – 1

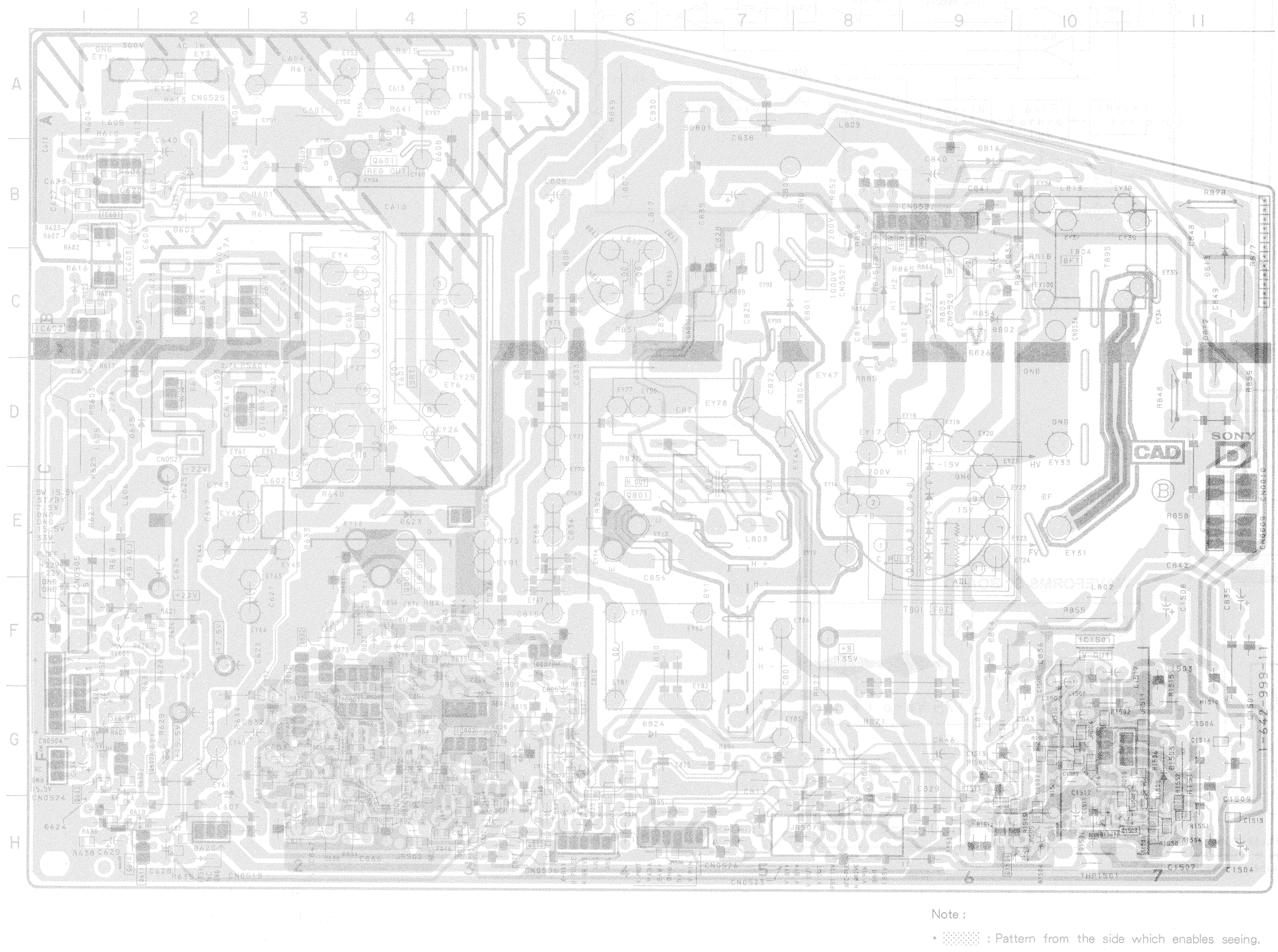
TRANSISTOR	
Q002	E – 1
Q003	D – 2
Q501	C – 2
Q502	B – 2
Q503	C – 2
Q508	C – 2
Q509	B – 2
Q564	A – 2
Q565	A – 2
Q566	B – 3
Q567	A – 3

DIODE	
D001	E – 1
D501	B – 2
D503	B – 3
D504	C – 2
D510	A – 1

VARIABLE RESISTOR	
RV506	B – 3

Note :
- ▨ : Pattern from the side which enables seeing.
- ▨ : Pattern of the rear side.

– D BOARD –


1-642-999-11
SONY
CAD
D
A
B
C
D
E
F
G
H
1
2
3
4
5
6
7
8
9
10
11

Note :
- ▨ : Pattern from the side which enables seeing.
- ▨ : Pattern of the rear side.

-2
-3
-3
-6
-5
-1

TOR

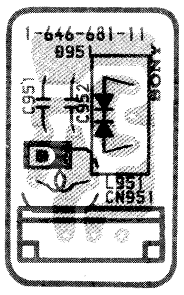
-1
-2
-2
-2
-2
-2
-2
-2
-2
-3
-3

-1
-2
-3
-2
-1

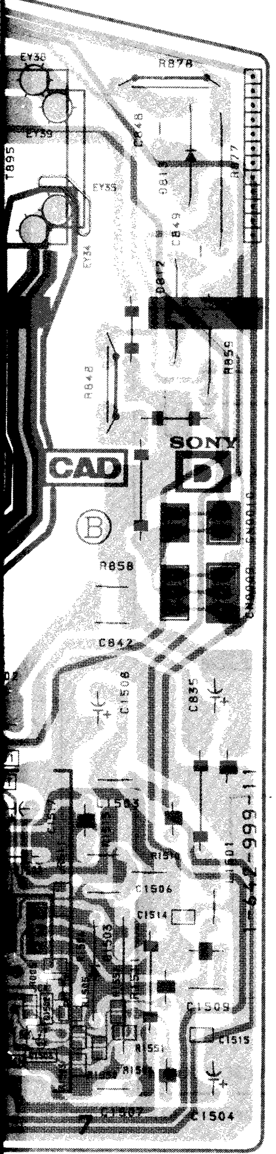
LE
OR

-3

– D3 BOARD –



1-646-681-11
Ø95
C951
C952
D
L951
CN951
SONY



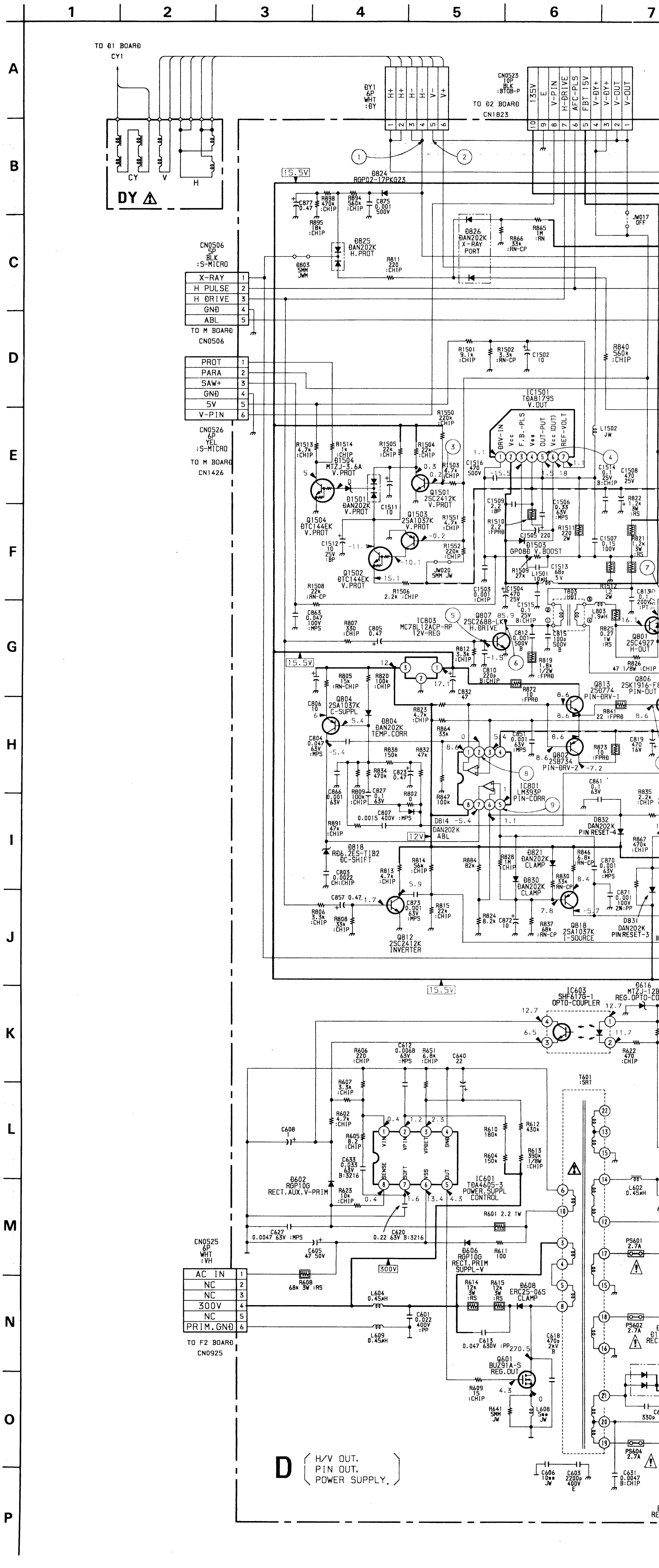
IC	
IC601	B - 1
IC602	C - 1
IC603	C - 1
IC801	G - 3
IC802	G - 4
IC803	G - 3
IC1501	G - 10

TRANSISTOR	
Q601	B - 3
Q602	G - 1
Q603	G - 1
Q610	H - 1
Q611	H - 2
Q801	E - 6
Q802	F - 3
Q804	G - 4
Q805	G - 3
Q806	E - 4
Q807	F - 5
Q812	H - 5
Q813	F - 3
Q818	H - 4
Q1501	H - 10
Q1502	G - 11
Q1503	H - 11
Q1504	H - 10

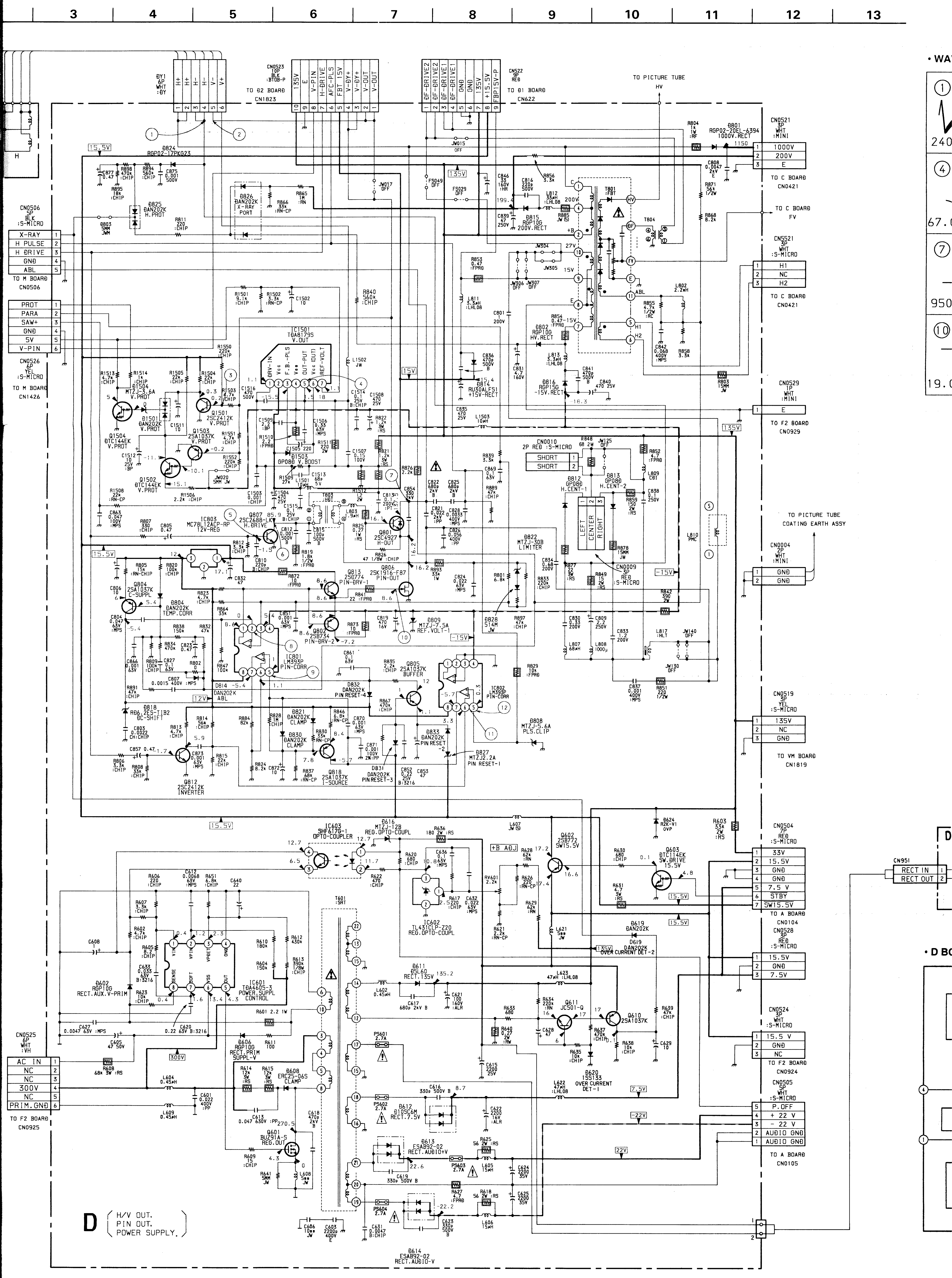
DIODE	
D602	B - 2
D606	B - 2
D608	A - 4
D610	D - 2
D611	E - 2
D612	D - 3
D613	C - 3
D614	C - 2
D616	C - 1
D619	H - 1
D620	H - 2
D624	G - 1
D801	C - 7
D802	C - 9
D803	H - 5
D804	G - 4
D808	G - 5
D809	G - 5
D811	F - 4
D812	C - 11
D813	C - 11
D814	F - 9
D815	C - 8
D816	B - 9
D818	H - 4
D821	H - 4
D822	F - 4
D825	H - 6
D826	C - 9
D827	G - 3
D828	F - 4
D830	H - 5
D831	G - 3
D832	G - 4
D833	G - 3
D1501	H - 10
D1503	G - 11
D1504	H - 10

VARIABLE RESISTOR	
RV601	F - 1

side which enables seeing.
r side.



1
2
3
4
5
6
7
A
B
C
D
E
F
G
H
I
J
K
L
M
N
O
P
TO Ø1 BOARD CY1
DY1 6P WHT :ØY
H+ H+ H- H- V- V+
CY
V
H
DY ⚠
CN0523 10P BLK :BTØB-P
TO Ø2 BOARD CN1823
135V E V-PIN H-DRIVE AFC-PLS FBT 15V V-DY+ V-DY+ V-OUT V-OUT
15.5V
D824 RGP02-17PKG23
D826 DAN202K X-RAY PROT
D825 DAN202K H.PROT
CN0506 5P BLK :S-MICRO
X-RAY
H PULSE
H DRIVE
GND
ABL
TO M BOARD CN0506
PROT
PARA
SAW+
GND
5V
V-PIN
CN0526 6P YEL :S-MICRO
TO M BOARD CN1426
IC1501 TDA8179S V.OUT
Q1501 2SC2412K V.PROT
Q1503 2SA1037K V.PROT
Q1504 DTC144EK V.PROT
Q1502 DTC144EK V.PROT
D1501 DAN202K V.PROT
D1504 MTZJ-3.6A V.PROT
D1503 GP08D V.BOOST
IC803 MC78L12ACP-RP 12V-REG
Q807 2SC2688-LK H.DRIVE
Q801 2SC4927 H-OUT
Q806 2SK1916-F PIN-OUT
Q813 2SD774 PIN-DRV-1
Q804 2SA1037K C-SUPPL
D804 DAN202K TEMP.CORR
Q802 2SB734 PIN-DRV-2
IC801 LM393P PIN-CORR
D832 DAN202K PIN RESET-4
D814 DAN202K ABL
12V
D818 RD6.2ES-T1B2 DC-SHIFT
D821 DAN202K CLAMP
D830 DAN202K CLAMP
Q818 2SA1037K I-SOURCE
D831 DAN202K PIN RESET-3
Q812 2SC2412K INVERTER
IC603 SHF617G-1 OPTO-COUPLER
D616 MTZJ-12B REG. OPTO-C
IC601 TDA4605-3 POWER SUPPL CONTROL
D602 RGP10G RECT.AUX.V-PRIM
D606 RGP10G RECT.PRIM SUPPL-V
D608 ERC25-06S CLAMP
Q601 BUZ91A-S REG.OUT
T601 :SRT
300V
CN0525 6P WHT :VH
AC IN
NC
NC
300V
NC
PRIM.GND
TO F2 BOARD CN0925
PS601 2.7A
PS602 2.7A
PS604 2.7A
D
H/V OUT.
PIN OUT.
POWER SUPPLY.


3
4
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6
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8
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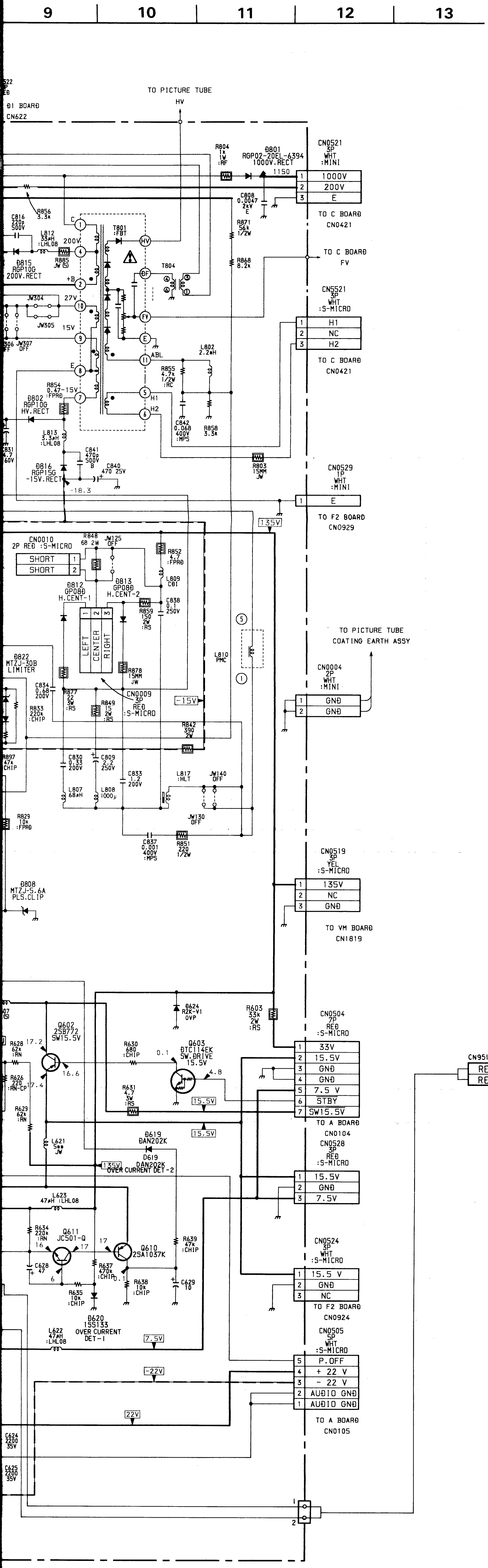
10
11
12
13
• WA
DY1
6P
WHT
:DY
H+
H+
H-
H-
V-
V+
CN0523
10P
BLK
:BTOB-P
TO D2 BOARD
CN1823
135V
E
V-PIN
H-DRIVE
AFC-PLS
FBT 15V
V-DY+
V-DY+
V-OUT
V-OUT
DF-DRIVE2
DF-DRIVE2
DF-DRIVE1
DF-DRIVE1
GND
GND
135V
+15.5V
FBP15V-P
CN522
9P
RED
TO D1 BOARD
CN622
TO PICTURE TUBE
HV
CN0506
5P
BLK
:S-MICRO
X-RAY
H PULSE
H DRIVE
GND
ABL
TO M BOARD
CN0506
PROT
PARA
SAW+
GND
5V
V-PIN
CN0526
6P
YEL
:S-MICRO
TO M BOARD
CN1426
CN0521
3P
WHT
:MINI
1000V
200V
E
TO C BOARD
CN0421
TO C BOARD
FV
CN5521
3P
WHT
:S-MICRO
H1
NC
H2
TO C BOARD
CN0421
CN0529
1P
WHT
:MINI
E
TO F2 BOARD
CN0929
TO PICTURE TUBE
COATING EARTH ASSY
CN0004
2P
WHT
:MINI
GND
GND
CN0519
3P
YEL
:S-MICRO
135V
NC
GND
TO VM BOARD
CN1819
CN0504
7P
RED
:S-MICRO
33V
15.5V
GND
GND
7.5 V
STBY
SW15.5V
TO A BOARD
CN0104
CN0528
3P
RED
:S-MICRO
15.5V
GND
7.5V
CN0524
3P
WHT
:S-MICRO
15.5 V
GND
NC
TO F2 BOARD
CN0924
CN0505
5P
WHT
:S-MICRO
P.OFF
+ 22 V
- 22 V
AUDIO GND
AUDIO GND
TO A BOARD
CN0105
CN0525
6P
WHT
:VH
AC IN
NC
NC
300V
NC
PRIM.GND
TO F2 BOARD
CN0925
CN951
RECT IN
RECT OUT
• D BO
D824 RGP02-17PKG23
D826 DAN202K X-RAY PORT
D825 DAN202K H.PROT
D801 RGP02-20EL-6394 1000V.RECT
T801 :FBT
T804
D815 RGP10G 200V.RECT
D802 RGP10G HV.RECT
D814 RU3OALFS1 +15V-RECT
D816 RGP15G -15V.RECT
IC1501 TDA8179S V.OUT
DRV-IN
Vcc
F.B.-PLS
Vee
OUT-PUT
Vcc (OUT)
REF-VOLT
D1501 DAN202K V.PROT
D1504 MTZJ-3.6A V.PROT
Q1501 2SC2412K V.PROT
Q1503 2SA1037K V.PROT
Q1504 DTC144EK V.PROT
Q1502 DTC144EK V.PROT
D1503 GP08D V.BOOST
IC803 MC78L12ACP-RP 12V-REG
Q807 2SC2688-LK H.DRIVE
Q801 2SC4927 H-OUT
T803 :HDT
Q804 2SA1037K C-SUPPL
D804 DAN202K TEMP.CORR
Q813 2SD774 PIN-DRV-1
Q806 2SK1916-F87 PIN-OUT
Q802 2SB734 PIN-DRV-2
D809 MTZJ-7.5A REF.VOLT-1
IC801 LM393P PIN-CORR
D814 DAN202K ABL
D818 RD6.2ES-TIB2 DC-SHIFT
D832 DAN202K PIN RESET-4
Q805 2SA1037K BUFFER
IC802 LM393P PIN-CORR
D821 DAN202K CLAMP
D830 DAN202K CLAMP
Q818 2SA1037K I-SOURCE
D831 DAN202K PIN RESET-3
D833 DAN202K PIN RESET
D827 MTZJ2.2A PIN RESET-1
D808 MTZJ-5.6A PLS.CLIP
Q812 2SC2412K INVERTER
D822 MTZJ-30B LIMITER
D828 S14M JW
CN0010 2P RED :S-MICRO
SHORT
SHORT
D812 GP08D H.CENT-1
D813 GP08D H.CENT-2
LEFT
CENTER
RIGHT
CN0009 3P RED :S-MICRO
L810 PMC
IC603 SHF617G-1 OPTO-COUPLER
D616 MTZJ-12B REG.OPTO-COUPL
IC602 TL431CLP-Z20 REG.OPTO-COUPL
+B ADJ
Q602 2SB772 SW15.5V
Q603 DTC114EK SW.DRIVE 15.5V
D624 RZK-V1 OVP
D619 DAN202K
D619 DAN202K OVER CURRENT DET-2
T601 :SRT
D602 RGP10G RECT.AUX.V-PRIM
IC601 TDA4605-3 POWER.SUPPL CONTROL
SENSE
SOFT
VSS
OUT
VIN
VPIN
VPBET
GND
D611 DSL60 RECT.135V
Q611 JC501-Q
Q610 2SA1037K
D620 1SS133 OVER CURRENT DET-1
D606 RGP10G RECT.PRIM SUPPL-V
D608 ERC25-06S CLAMP
Q601 BUZ91A-S REG.OUT
D612 D10SC6M RECT.7.5V
D613 ESAB92-02 RECT.AUDIO+V
D614 ESAB92-02 RECT.AUDIO-V
PS601 2.7A
PS602 2.7A
PS603 2.7A
PS604 2.7A
15.5V
135V
15V
-15V
12V
300V
7.5V
-22V
22V
D
H/V OUT.
PIN OUT.
POWER SUPPLY.

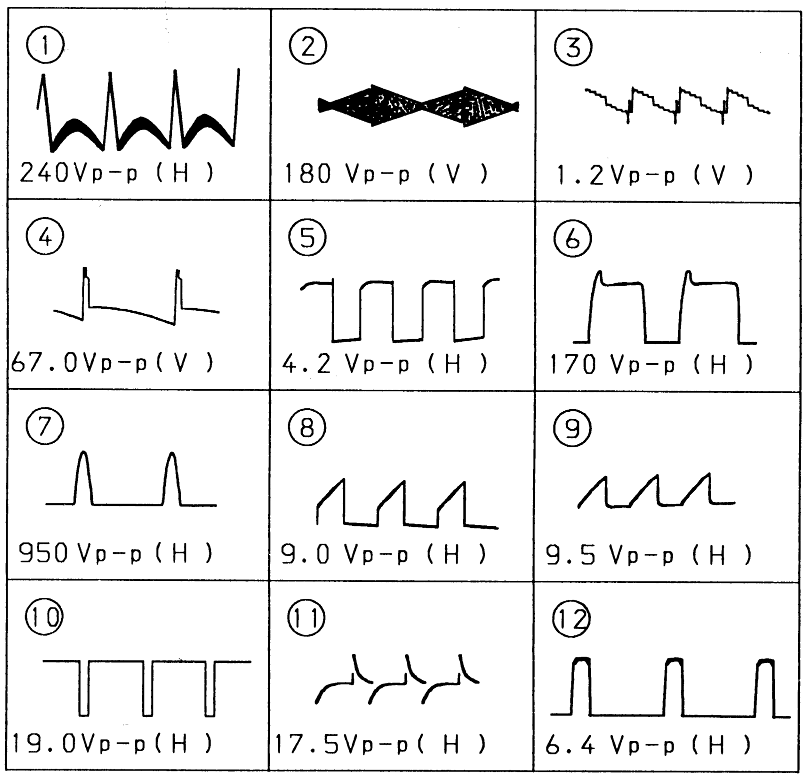
B-5S4178<AEP>-0..

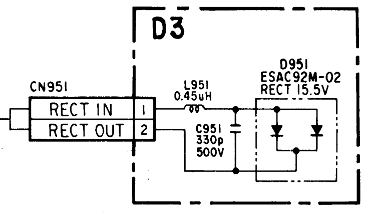


9
10
11
12
13
TO PICTURE TUBE
HV
01 BOARD
CN622
R804 1k 1W :RF
D801 RGP02-20EL-6394 1000V.RECT
1150
CN0521 3P WHT :MINI
1 1000V
2 200V
3 E
C808 0.0047 2kV E
R871 56k 1/2W
TO C BOARD CN0421
TO C BOARD FV
R868 8.2k
R856 3.3k
C816 220p 500V
L812 33μH :LHL08
T801 :FBT
HV
200V
D815 RGP10G 200V.RECT
R885 JW (5)
T804
+B
JW304
27V
JW305
15V
JW307 OFF
E
ABL
L802 2.2μH
CN5521 3P WHT :S-MICRO
1 H1
2 NC
3 H2
TO C BOARD CN0421
R855 4.7k 1/2W :RC
R854 0.47 :FPRD
-15V
D802 RGP10G HV.RECT
H1
H2
C842 0.068 400V :MPS
R858 3.3k
L813 3.3μH :LHL08
C841 470p 500V
C840 470 25V
D816 RGP15G -15V.RECT
-18.3
R803 15MM JW
CN0529 1P WHT :MINI
1 E
TO F2 BOARD CN0929
135V
CN0010 2P RED :S-MICRO
SHORT 1
SHORT 2
R848 68 2W
JW125 OFF
R852 4.7 :FPRD
L809 CBI
D812 GP08D H.CENT-1
D813 GP08D H.CENT-2
C838 0.1 250V
R859 150 2W :RS
LEFT
CENTER
RIGHT
R878 15MM JW
5
1
L810 PMC
TO PICTURE TUBE COATING EARTH ASSY
CN0004 2P WHT :MINI
1 GND
2 GND
D822 MTZJ-30B LIMITER
C834 0.68 200V
R877 22 3W :RS
R833 220k :CHIP
R849 15 2W :RS
CN0009 3P RED :S-MICRO
-15V
R842 390 2W
R897 47k CHIP
C830 0.33 200V
C809 2.2 250V
C833 1.2 200V
L817 :HLT
JW140 OFF
L807 68μH
L808 1000μ
R829 10k :FPRD
JW130 OFF
C837 0.001 400V :MPS
R851 220 1/2W
CN0519 3P YEL :S-MICRO
1 135V
2 NC
3 GND
TO VM BOARD CN1819
D808 MTZJ-5.6A PLS.CLIP
D624 RZK-V1 OVP
R603 33k 2W :RS
CN0504 7P RED :S-MICRO
1 33V
2 15.5V
3 GND
4 GND
5 7.5 V
6 STBY
7 SW15.5V
TO A BOARD CN0104
Q602 2SB772 SW15.5V
R628 62k :RN
17.2
16.6
R626 220 :RN-CP
17.4
R629 62k :RN
R630 680 :CHIP
0.1
Q603 DTC114EK SW.DRIVE 15.5V
4.8
R631 4.7 3W :RS
15.5V
L621 5MM JW
D619 DAN202K
D619 DAN202K OVER CURRENT DET-2
135V
CN0528 3P RED :S-MICRO
1 15.5V
2 GND
3 7.5V
L623 47μH :LHL08
R634 220k :RN
Q611 JC501-Q
16
17
17
Q610 2SA1037K
R639 47k :CHIP
C628 47
6
R637 470k :CHIP
0.1
R638 10k :CHIP
C629 10
R635 10k :CHIP
CN0524 3P WHT :S-MICRO
1 15.5 V
2 GND
3 NC
TO F2 BOARD CN0924
L622 47μH :LHL08
D620 1SS133 OVER CURRENT DET-1
7.5V
CN0505 5P WHT :S-MICRO
5 P.OFF
4 + 22 V
3 - 22 V
2 AUDIO GND
1 AUDIO GND
-22V
22V
TO A BOARD CN0105
C624 2200 35V
C625 2200 35V
1
2

B-SS417B<AEP>-D..

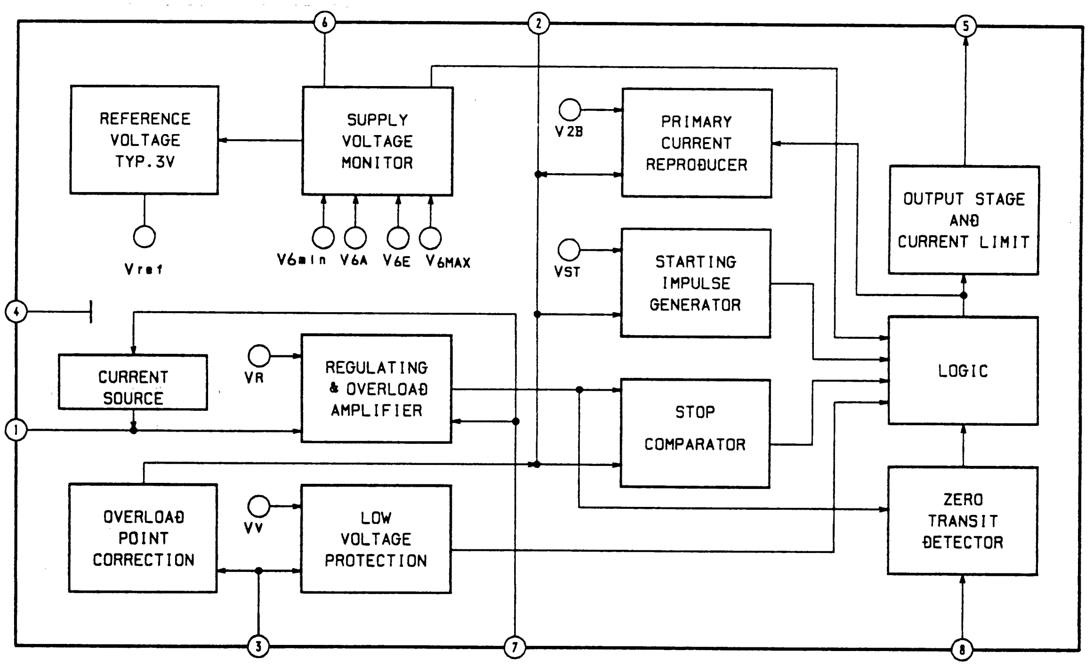
• WAVEFORMS D BOARD



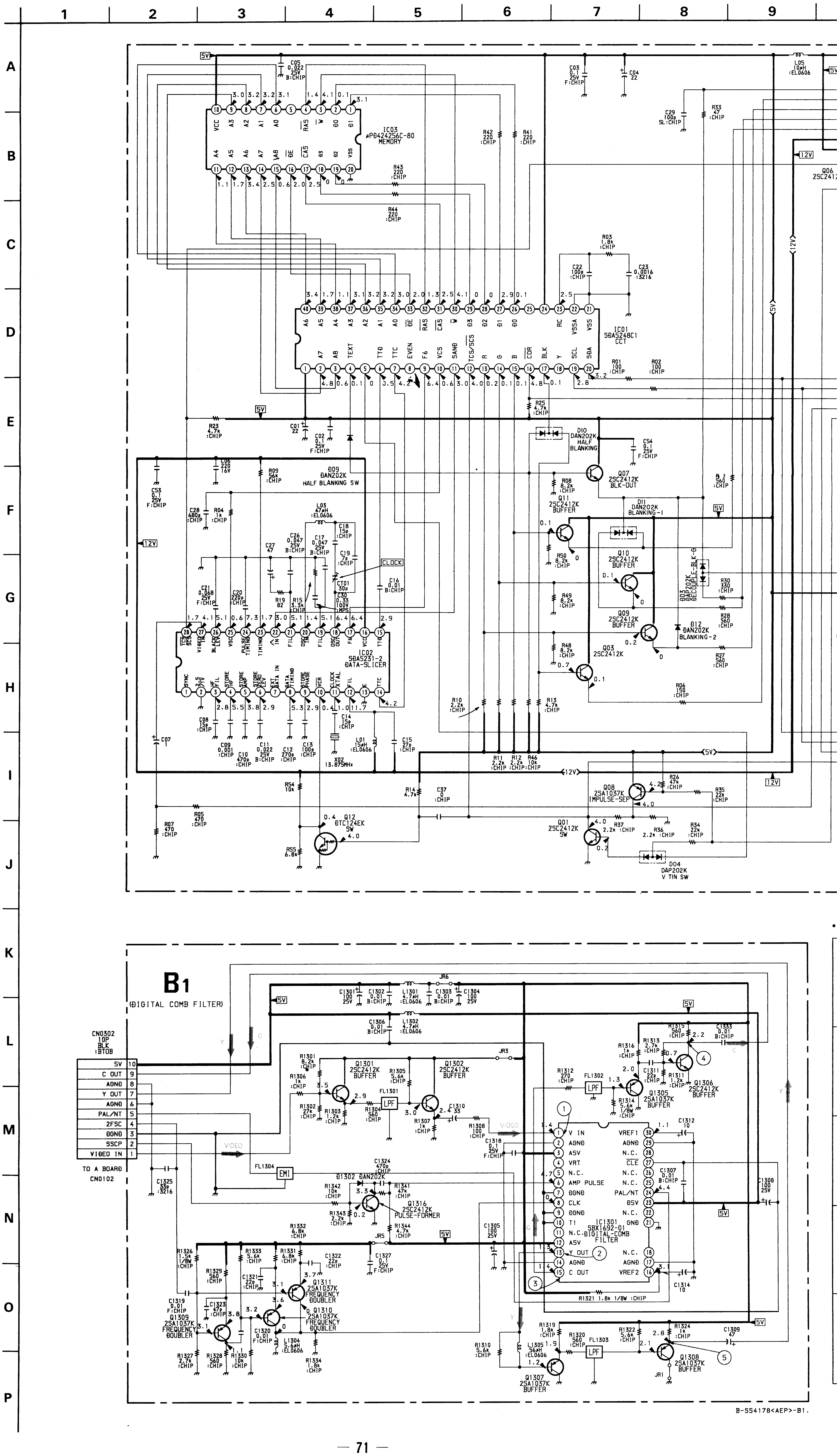


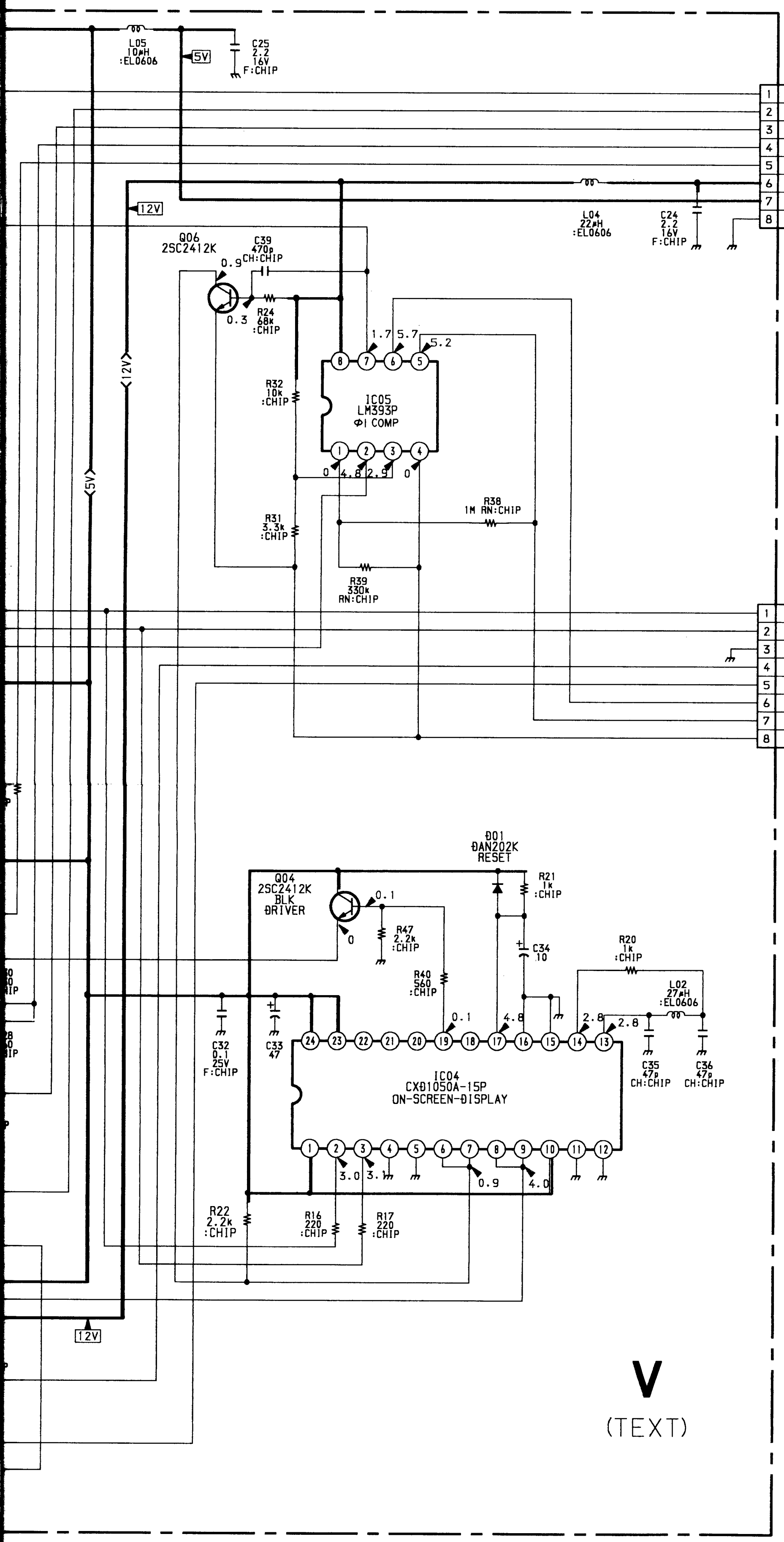
D3
CN951
RECT IN 1
RECT OUT 2
L951 0.45μH
D951 ESAC92M-02 RECT 15.5V
C951 330p 500V

• D BOARD IC601 TDA4605-3



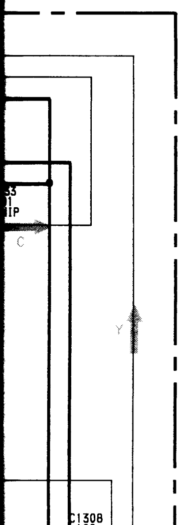
6
2
5
REFERENCE VOLTAGE TYP.3V
SUPPLY VOLTAGE MONITOR
V2B
PRIMARY CURRENT REPRODUCER
OUTPUT STAGE AND CURRENT LIMIT
Vref
V6min V6A V6E V6MAX
VST
STARTING IMPULSE GENERATOR
4
CURRENT SOURCE
VR
REGULATING & OVERLOAD AMPLIFIER
LOGIC
1
STOP COMPARATOR
OVERLOAD POINT CORRECTION
VV
LOW VOLTAGE PROTECTION
ZERO TRANSIT DETECTOR
3
7
8


B1
(DIGITAL COMB FILTER)
IC03 μPD424256C-80 MEMORY
IC01 SDA5248C1 CCT
IC02 SDA5231-2 DATA-SLICER
IC1301 SBX1692-01 DIGITAL-COMB FILTER
CN0302 10P BLK :BTOB
5V 10
C OUT 9
AGND 8
Y OUT 7
AGND 6
PAL/NT 5
2FSC 4
DGND 3
SSCP 2
VIDEO IN 1
TO A BOARD CN0102
Q07 2SC2412K BLK-OUT
Q11 2SC2412K BUFFER
Q10 2SC2412K BUFFER
Q09 2SC2412K BUFFER
Q03 2SC2412K
Q08 2SA1037K IMPULSE-SEP
Q01 2SC2412K SW
Q12 DTC124EK SW
D09 DAN202K HALF BLANKING SW
D10 DAN202K HALF BLANKING
D11 DAN202K BLANKING-1
D12 DAN202K BLANKING-2
D03 DAP202K DECOUPLE-BLK-G
D04 DAP202K V TIN SW
X02 13.875MHz
CLOCK
Q1301 2SC2412K BUFFER
Q1302 2SC2412K BUFFER
Q1305 2SA1037K BUFFER
Q1306 2SC2412K BUFFER
Q1316 2SC2412K PULSE-FORMER
D1302 DAN202K
Q1309 2SA1037K FREQUENCY DOUBLER
Q1310 2SA1037K FREQUENCY DOUBLER
Q1311 2SA1037K FREQUENCY DOUBLER
Q1307 2SA1037K BUFFER
Q1308 2SA1037K BUFFER
FL1301 LPF
FL1302 LPF
FL1303 LPF
FL1304 EMI
B-SS4178<AEP>-B1.


L05
10µH
:EL0606
5V
C25
2.2
16V
F:CHIP
CN1737
8P
WHT
:S-MICRO
1 BLK
2 YM
3 R
4 G
5 B
6 +12V
7 +5V
8 GND
TO A BOARD
CN0137
L04
22µH
:EL0606
C24
2.2
16V
F:CHIP
12V
Q06
2SC2412K
C39
470p
CH:CHIP
R24
68k
:CHIP
R32
10k
:CHIP
IC05
LM393P
ΦI COMP
R31
3.3k
:CHIP
R38
1M RN:CHIP
R39
330k
RN:CHIP
CN1741
8P
RED
:S-MICRO
1 SDA
2 SCL
3 GND
4 VIDEO
5 V.PULSE
6 H.SAW
7 REF
8 GND
TO M BOARD
CN1441
D01
DAN202K
RESET
Q04
2SC2412K
BLK
DRIVER
R21
1k
:CHIP
R47
2.2k
:CHIP
C34
10
R20
1k
:CHIP
R40
560
:CHIP
L02
27µH
:EL0606
C32
0.1
25V
F:CHIP
C33
47
IC04
CXD1050A-15P
ON-SCREEN-DISPLAY
C35
47p
CH:CHIP
C36
47p
CH:CHIP
R22
2.2k
:CHIP
R16
220
:CHIP
R17
220
:CHIP
12V

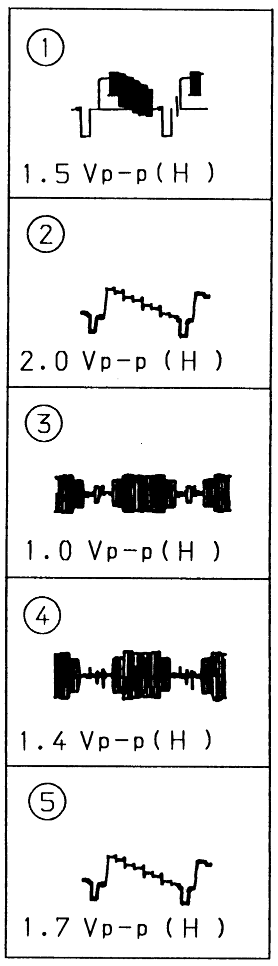
V
(TEXT)

B-SS4178<AEP>-V..

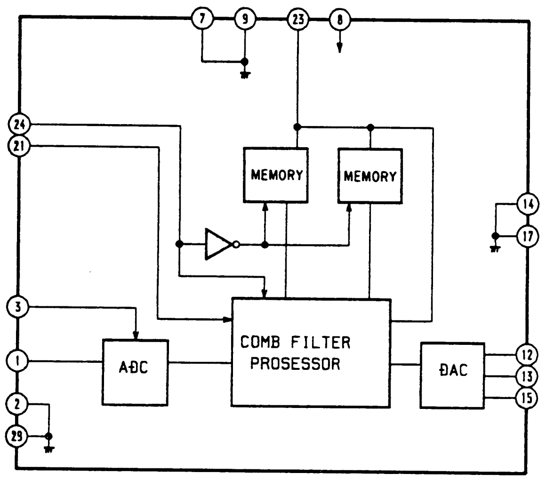

C1308
100
25V
C1309
47
5V

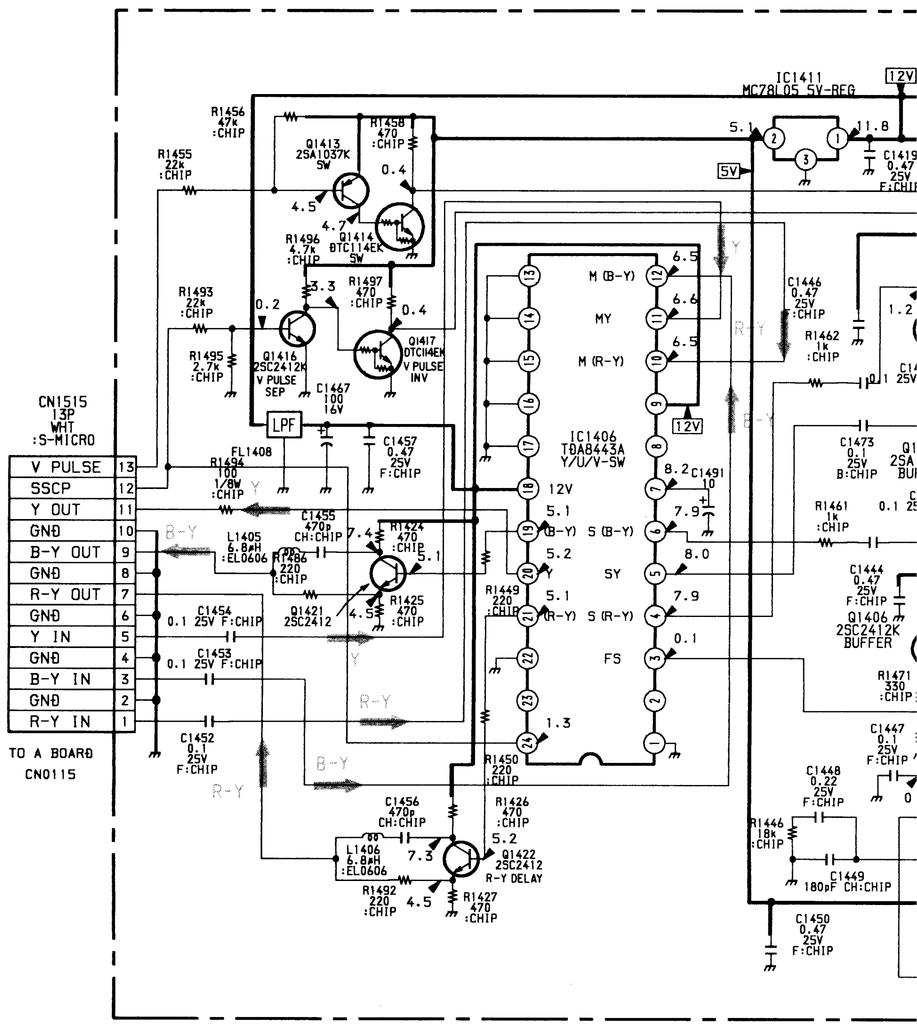
B-SS4178<AEP>-B1.

• WAVEFORMS B1 BOARD

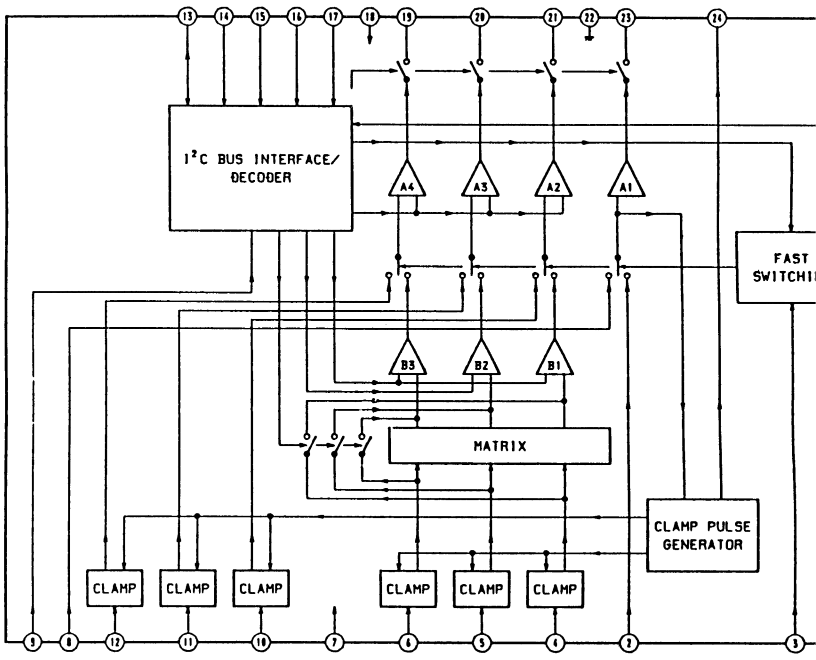


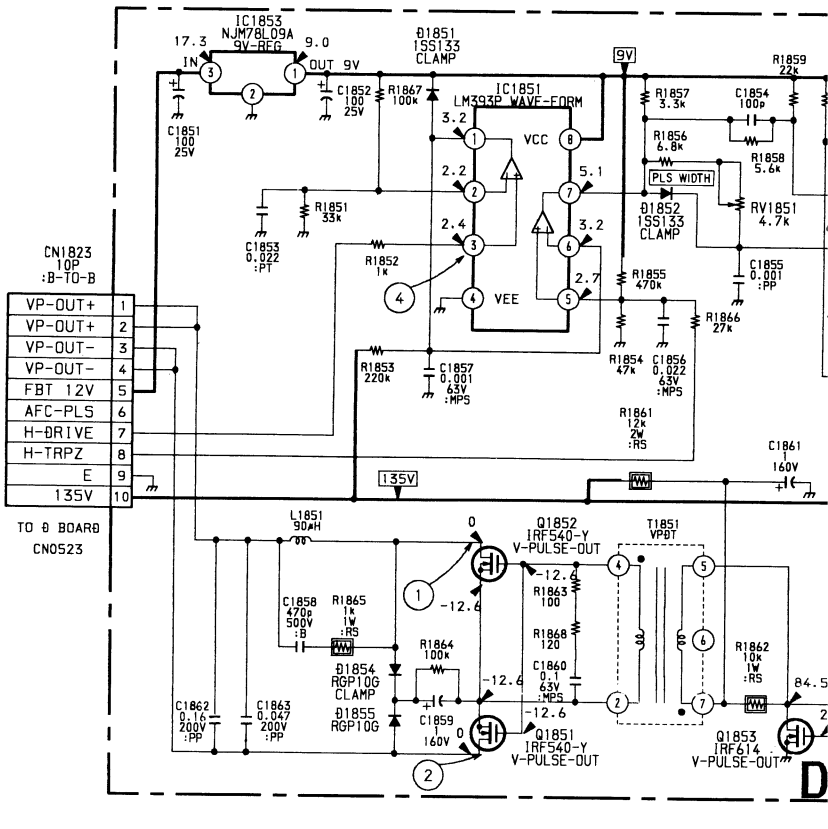
• B1 BOARD IC301 SBX1692-01

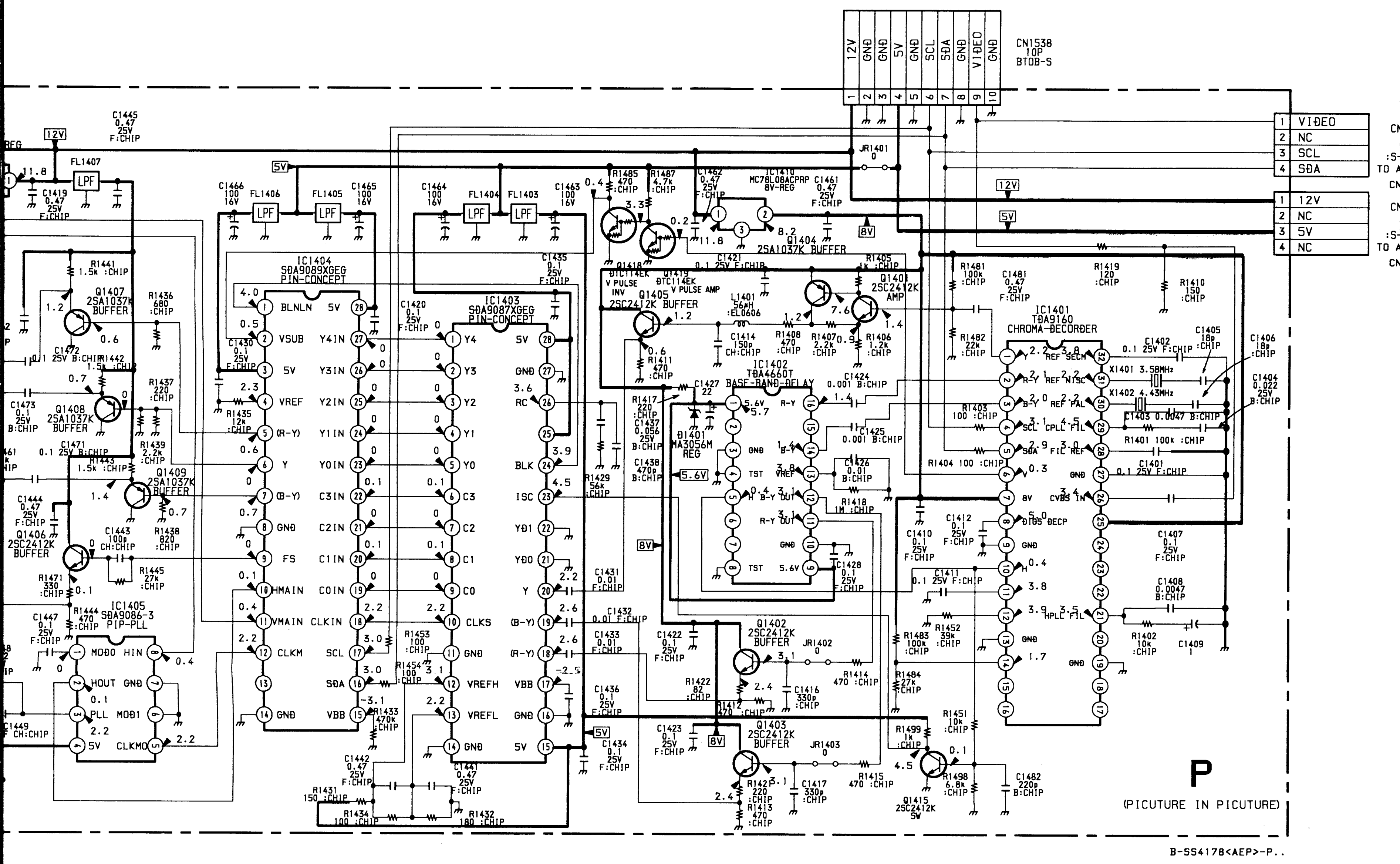

MEMORY
MEMORY
COMB FILTER
PROCESSOR
ADC
DAC


CN1515
13P
WHT
:S-MICRO
13 V PULSE
12 SSCP
11 Y OUT
10 GND
9 B-Y OUT
8 GND
7 R-Y OUT
6 GND
5 Y IN
4 GND
3 B-Y IN
2 GND
1 R-Y IN
TO A BOARD
CN0115
IC1411
MC78L05 5V-REG
12V
5V
Q1413
2SA1037K
SW
Q1414
DTC114EK
SW
Q1416
2SC2412K
V PULSE
SEP
Q1417
DTC114EK
V PULSE
INV
LPF
FL1408
IC1406
TDA8443A
Y/U/V-SW
Q1421
2SC2412
Q1422
2SC2412
R-Y DELAY
Q1406
2SC2412K
BUFFER
L1405
6.8µH
:EL0606
L1406
6.8µH
:EL0606

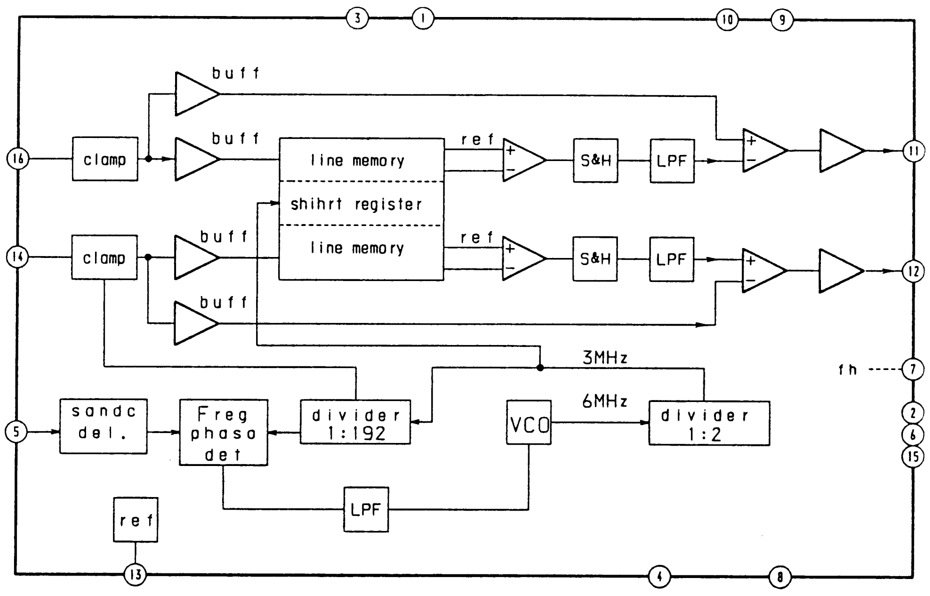
• P BOARD IC1406 TDA8443A

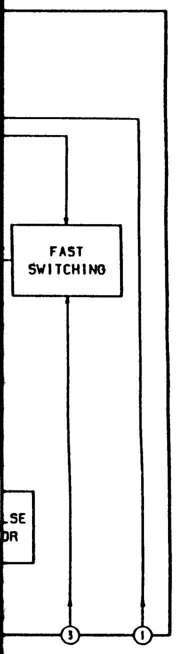

I²C BUS INTERFACE/
DECODER
A4
A3
A2
A1
B3
B2
B1
MATRIX
FAST
SWITCHI
CLAMP PULSE
GENERATOR
CLAMP
CLAMP
CLAMP
CLAMP
CLAMP
CLAMP

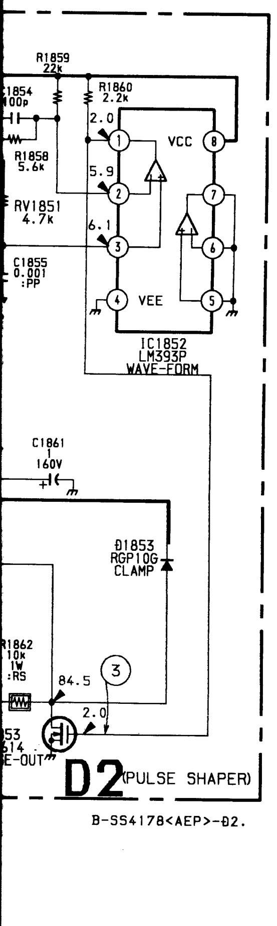

IC1853
NJM78L09A
9V-REG
D1851
1SS133
CLAMP
IC1851
LM393P WAVE-FORM
VCC
VEE
9V
PLS WIDTH
D1852
1SS133
CLAMP
CN1823
10P
:B-TO-B
1 VP-OUT+
2 VP-OUT+
3 VP-OUT-
4 VP-OUT-
5 FBT 12V
6 AFC-PLS
7 H-DRIVE
8 H-TRPZ
9 E
10 135V
TO D BOARD
CN0523
135V
L1851
90µH
Q1852
IRF540-Y
V-PULSE-OUT
T1851
VPDT
D1854
RGP10G
CLAMP
D1855
RGP10G
Q1851
IRF540-Y
V-PULSE-OUT
Q1853
IRF614
V-PULSE-OUT
D


CN1538 10P BTOB-S
12V
GND
GND
5V
GND
SCL
SDA
GND
VIDEO
GND
CN1516 4P WHT :S-MICRO TO A BOARD
CN0116
VIDEO
NC
SCL
SDA
CN1514 4P BLK :S-MICRO TO A BOARD
CN0114
12V
NC
5V
NC
IC1404 SDA9089XGEG PIP-CONCEPT
IC1403 SDA9087XGEG PIP-CONCEPT
IC1405 SDA9086-3 PIP-PLL
IC1402 TDA4660T BASE-BAND-DELAY
IC1401 TDA9160 CHROMA-DECODER
IC1410 MC78L08ACPRP 8V-REG
Q1404 2SA1037K BUFFER
Q1405 2SC2412K BUFFER
Q1401 2SC2412K AMP
Q1402 2SC2412K BUFFER
Q1403 2SC2412K BUFFER
Q1415 2SC2412K SW
Q1406 2SC2412K BUFFER
Q1407 2SA1037K BUFFER
Q1408 2SA1037K BUFFER
Q1409 2SA1037K BUFFER
Q1418 DTC114EK V PULSE INV
Q1419 DTC114EK V PULSE AMP
D1401 MA3056M REG
X1401 3.58MHz
X1402 4.43MHz
FL1403 FL1404 FL1405 FL1406 FL1407
LPF
12V
5V
8V
5.6V
P
(PICUTURE IN PICUTURE)
B-SS4178<AEP>-P..

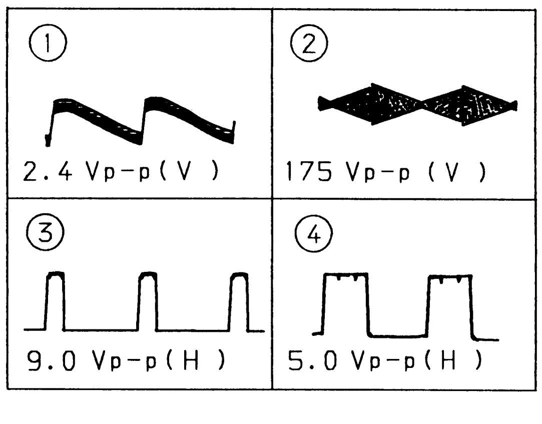
• P BOARD IC1402 TDA4660T


buff
clamp
line memory
shihrt register
line memory
ref
S&H
LPF
3MHz
6MHz
fh
sandc del.
Freg phaso det
divider 1:192
VCO
divider 1:2
LPF
ref


FAST SWITCHING

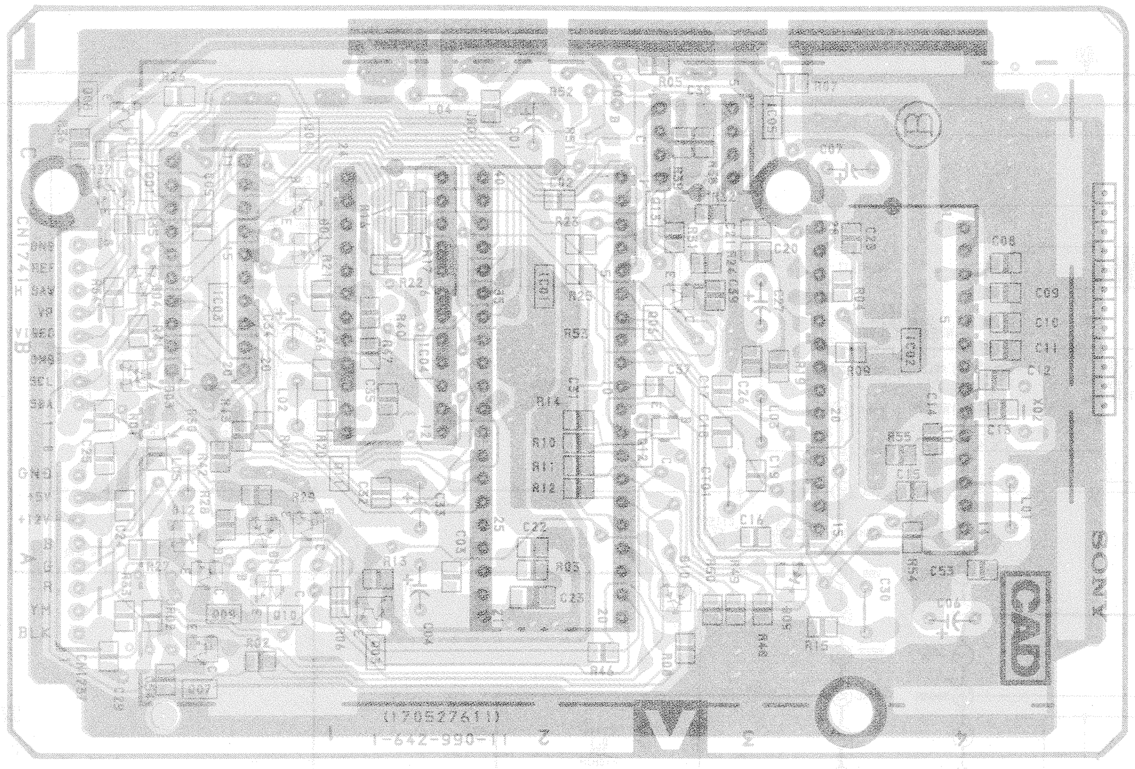

R1859 22k
R1860 2.2k
R1858 5.6k
RV1851 4.7k
C1855 0.001 :PP
VCC
VEE
IC1852 LM393P WAVE-FORM
C1861 1 160V
D1853 RGP10G CLAMP
R1862 10k 1W :RS
84.5
2.0
E-OUT
D2
(PULSE SHAPER)
B-SS4178<AEP>-D2.

• WAVEFORMS D2 BOARD

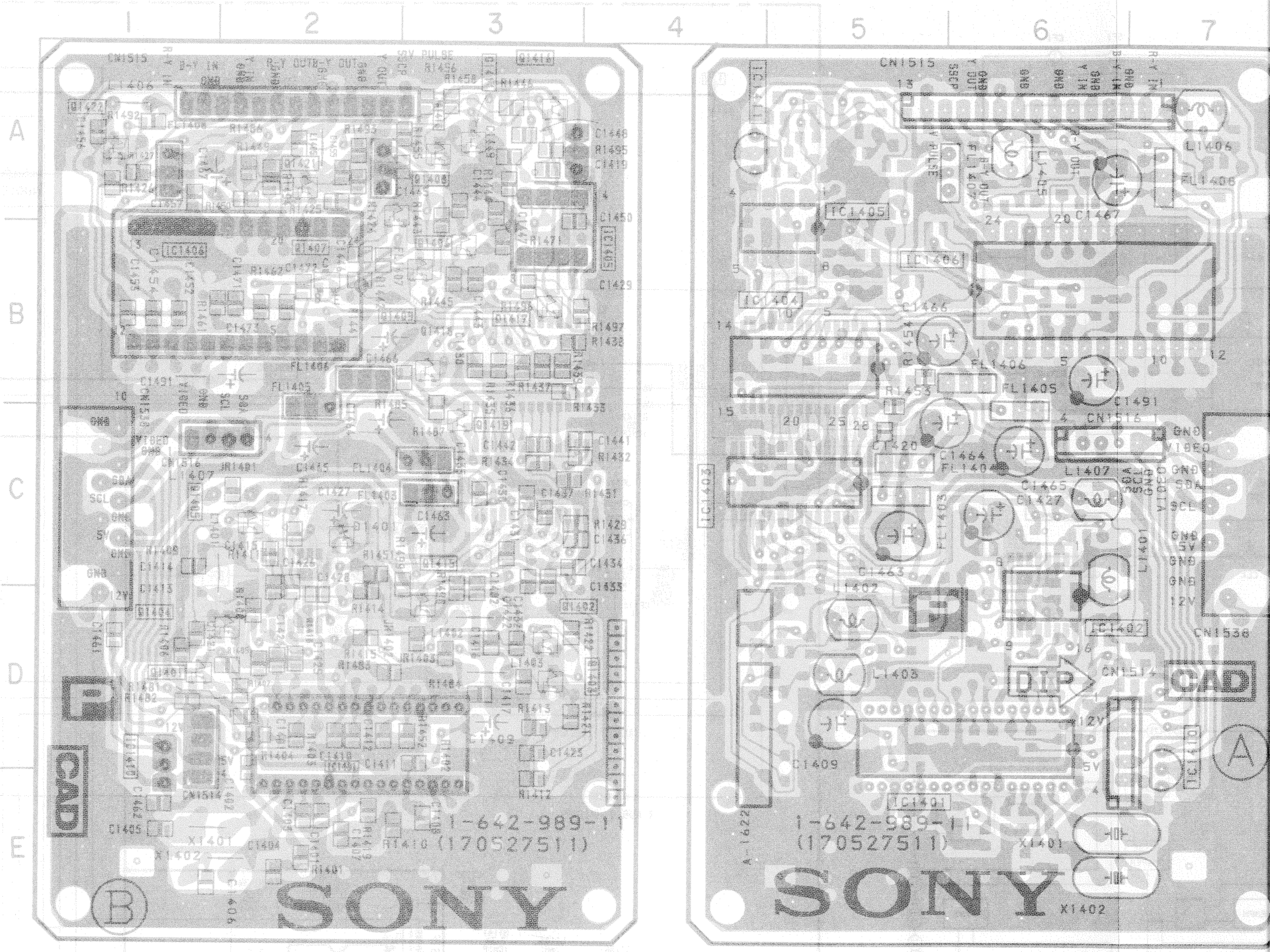


V [TEXT] B1 [DIGITAL COMB FILTER] D2 [PULSE SHAPER] P [PICTURE IN PICTURE]

– V BOARD –


1-642-990-11
(170527611)
SONY
CAD
V

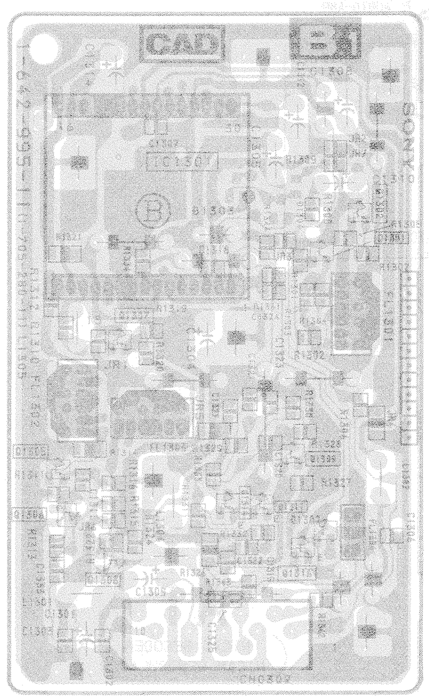
– P BOARD –


1
2
3
4
5
6
7
A
B
C
D
E
CN1515
1-642-989-11 (170527511)
SONY
CAD
P
DIP
X1401
X1402

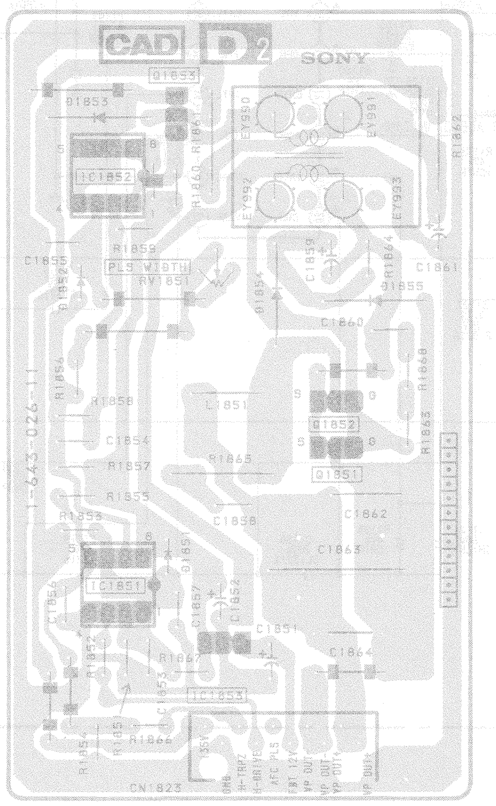
Note :

- ░ : Pattern from the side which enables seeing.
- ░ : Pattern of the rear side.

– B1 BOARD –


CAD
B1
SONY
IC1301
1-642-995-11

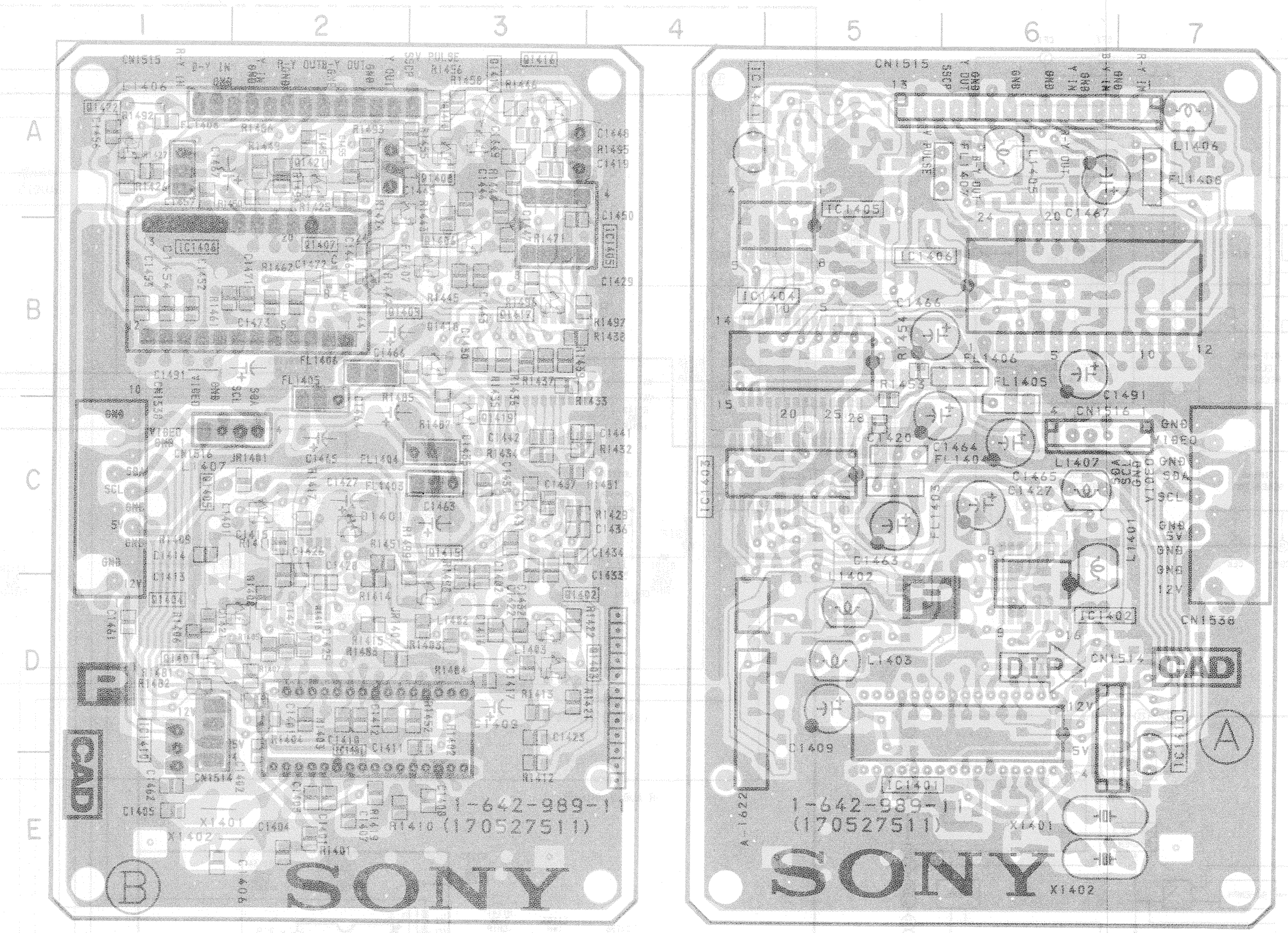
– D2 BOARD –


CAD
D2
SONY
IC1852
IC1851
IC1853
PLS WIDTH RV1851
1-643-026-11
CN1823

Note :

- ░ : Pattern from the side which enables seeing.
- ░ : Pattern of the rear side.

– P BOARD –


1
2
3
4
5
6
7
A
B
C
D
E
P
CAD
1-642-989-11 (170527511)
SONY
Ⓑ
DIP
Ⓐ

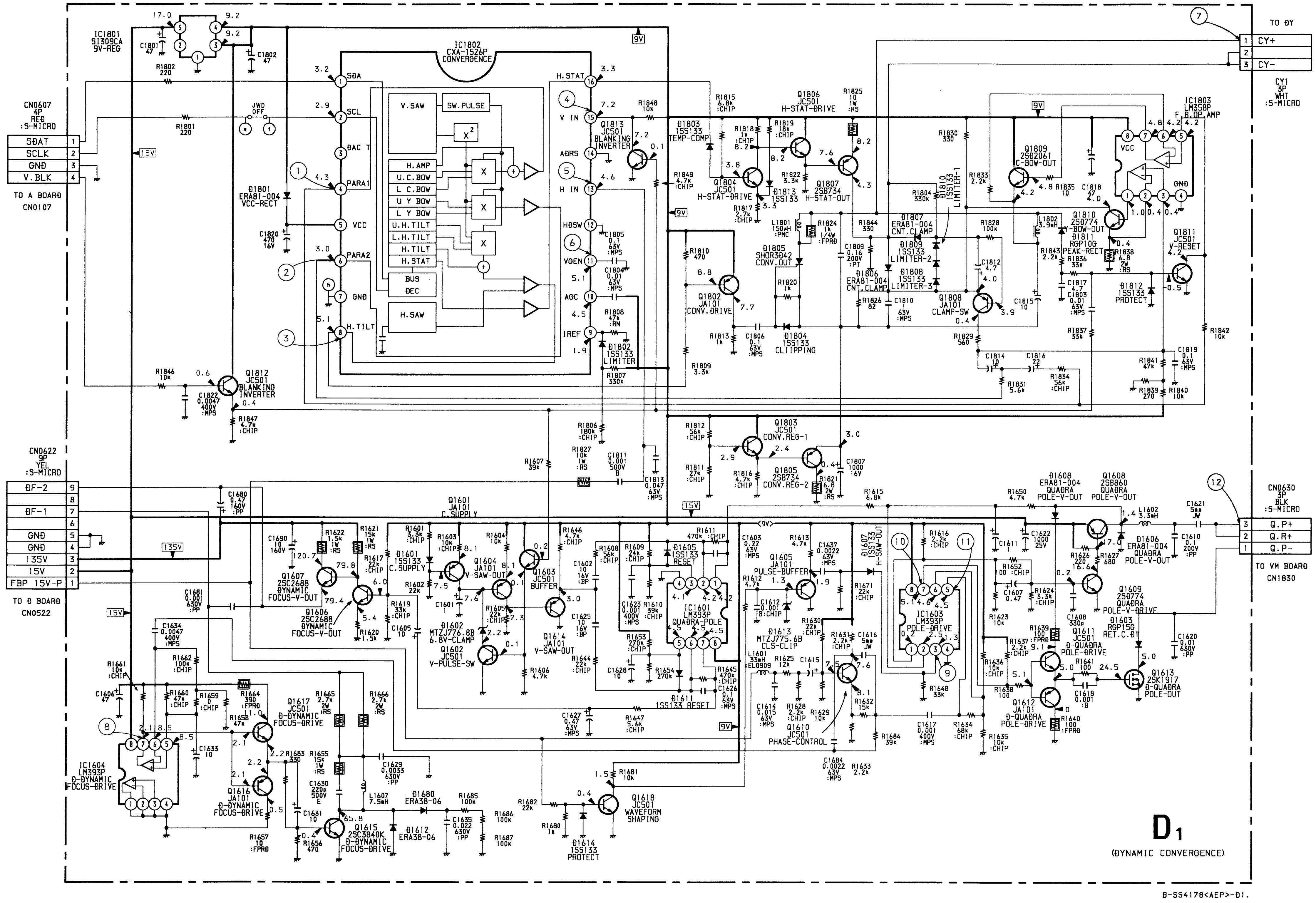
IC	
IC1401	D－2
IC1402	D－6
IC1403	C－5
IC1404	B－5
IC1405	B－3
IC1406	B－2
IC1410	D－1
IC1411	A－3

TRANSISTOR	
Q1401	D－1
Q1402	D－3
Q1403	D－3
Q1404	D－2
Q1405	C－2
Q1406	B－3
Q1407	A－2
Q1408	A－3
Q1409	B－3
Q1413	A－3
Q1414	A－3
Q1415	D－3
Q1416	A－3
Q1417	B－3
Q1418	B－3
Q1419	C－3
Q1421	A－2
Q1422	A－1

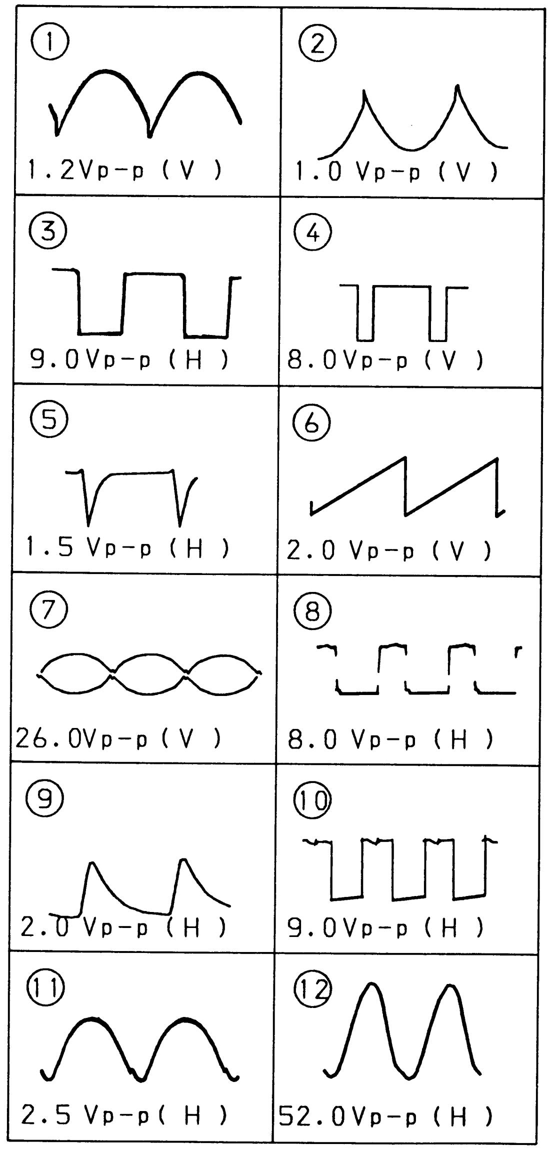
DIODED	
D1401	C－2

Note :

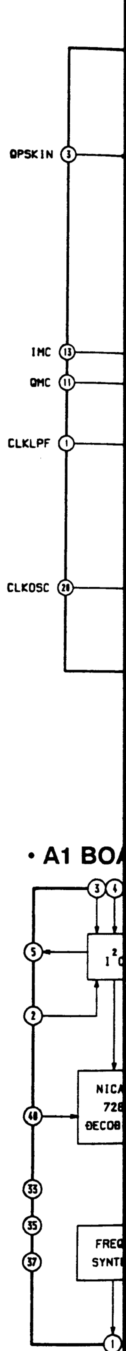
- ▨ : Pattern from the side which enables seeing.
- ▨ : Pattern of the rear side.

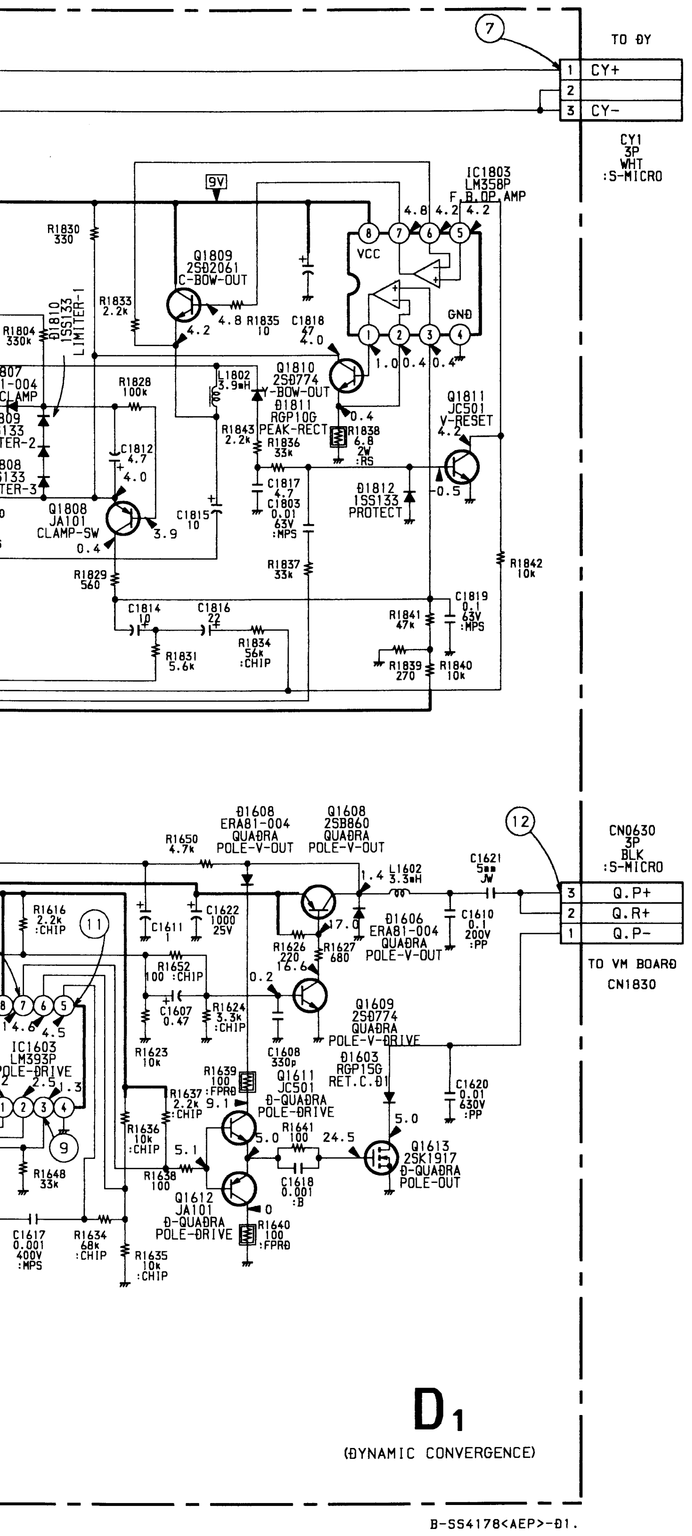

IC1801 S1309CA 9V-REG
IC1802 CXA-1526P CONVERGENCE
CN0607 4P RED :S-MICRO
SDAT
SCLK
GND
V.BLK
TO A BOARD CN0107
CN0622 9P YEL :S-MICRO
DF-2
DF-1
GND
GND
135V
15V
FBP 15V-P
TO D BOARD CN0522
CY1 3P WHT :S-MICRO
TO DY
CY+
CY-
CN0630 3P BLK :S-MICRO
Q.P+
Q.R+
Q.P-
TO VM BOARD CN1830
IC1803 LM358P F.B.OP AMP
IC1601 LM393P QUADRA-POLE
IC1603 LM393P POLE-DRIVE
IC1604 LM393P D-DYNAMIC FOCUS-DRIVE
D1
(DYNAMIC CONVERGENCE)
B-SS4178<AEP>-01.

• WAVEFORMS D1 BOARD

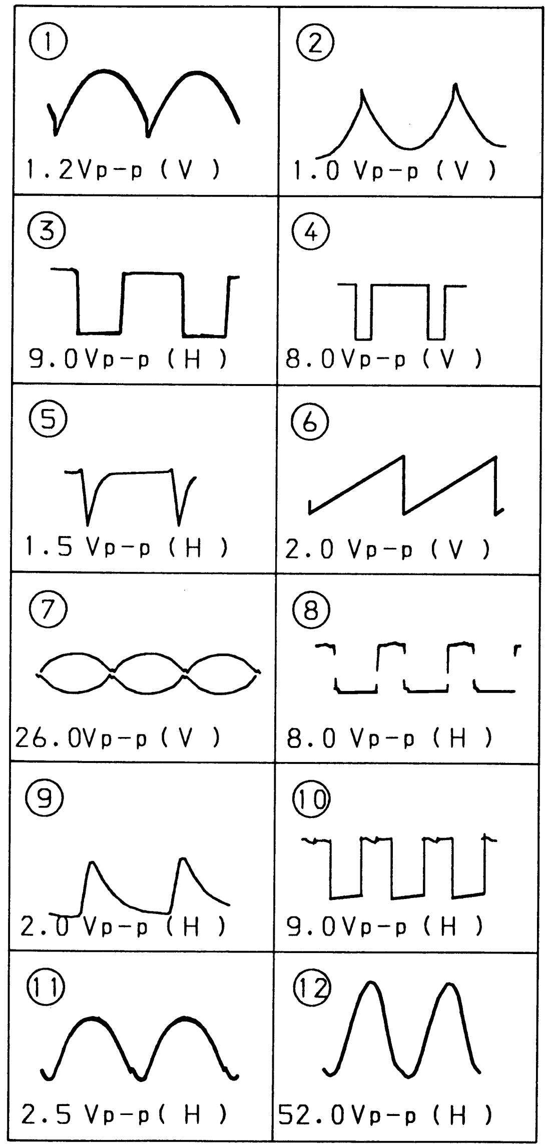


• A1 BOA

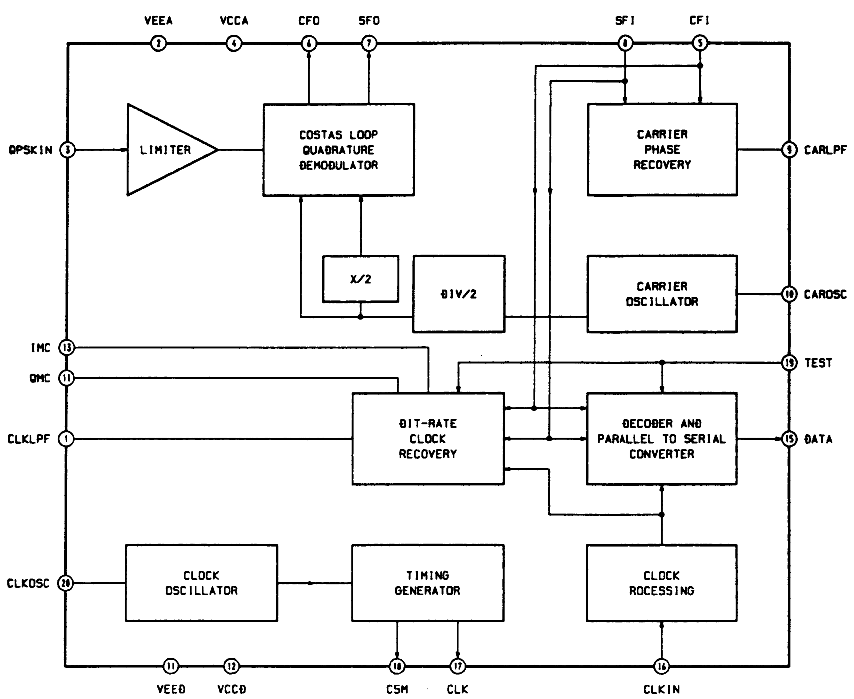

OPSKIN
IMC
QMC
CLKLPF
CLKOSC
• A1 BO


TO DY
CY+
CY-
CY1 3P WHT :S-MICRO
IC1803 LM358P F.B.OP AMP
Q1809 2SD2061 C-BOW-OUT
Q1810 2SD774 Y-BOW-OUT
Q1811 JC501 V-RESET
Q1808 JA101 CLAMP-SW
D1811 RGP10G PEAK-RECT
D1812 1SS133 PROTECT
Q1608 ERA81-004 QUADRA POLE-V-OUT
Q1608 2SB860 QUADRA POLE-V-OUT
Q1606 ERA81-004 QUADRA POLE-V-OUT
Q1609 2SD774 QUADRA POLE-V-DRIVE
D1603 RGP15G RET.C.D1
Q1611 JC501 D-QUADRA POLE-DRIVE
Q1612 JA101 D-QUADRA POLE-DRIVE
Q1613 2SK1917 D-QUADRA POLE-OUT
IC1603 LM393P POLE-DRIVE
CN0630 3P BLK :S-MICRO
Q.P+
Q.R+
Q.P-
TO VM BOARD CN1830
D1
(DYNAMIC CONVERGENCE)
B-SS4178<AEP>-01.

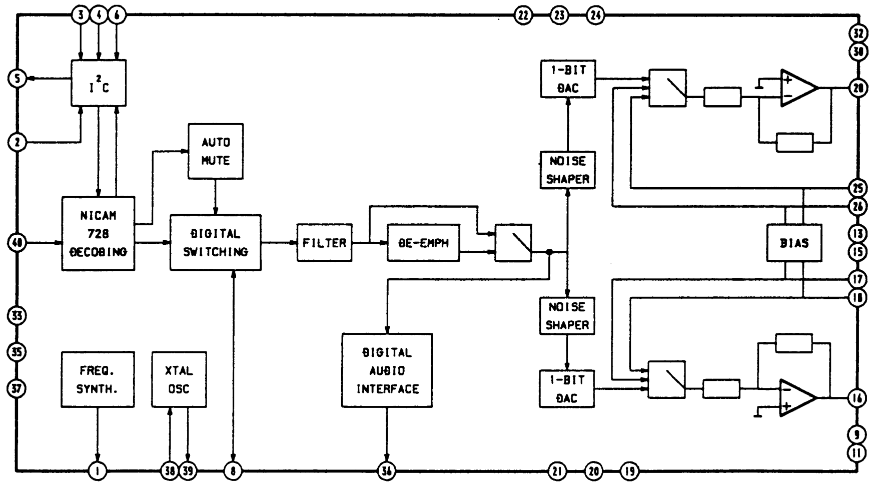
• WAVEFORMS D1 BOARD



• A1 BOARD IC1101 TDA8732


VEEA
VCCA
CFO
SFO
SFI
CFI
QPSKIN
LIMITER
COSTAS LOOP QUADRATURE DEMODULATOR
CARRIER PHASE RECOVERY
CARLPF
X/2
DIV/2
CARRIER OSCILLATOR
CAROSC
IMC
QMC
TEST
CLKLPF
BIT-RATE CLOCK RECOVERY
DECODER AND PARALLEL TO SERIAL CONVERTER
DATA
CLKOSC
CLOCK OSCILLATOR
TIMING GENERATOR
CLOCK ROCESSING
VEED
VCCD
CSM
CLK
CLKIN

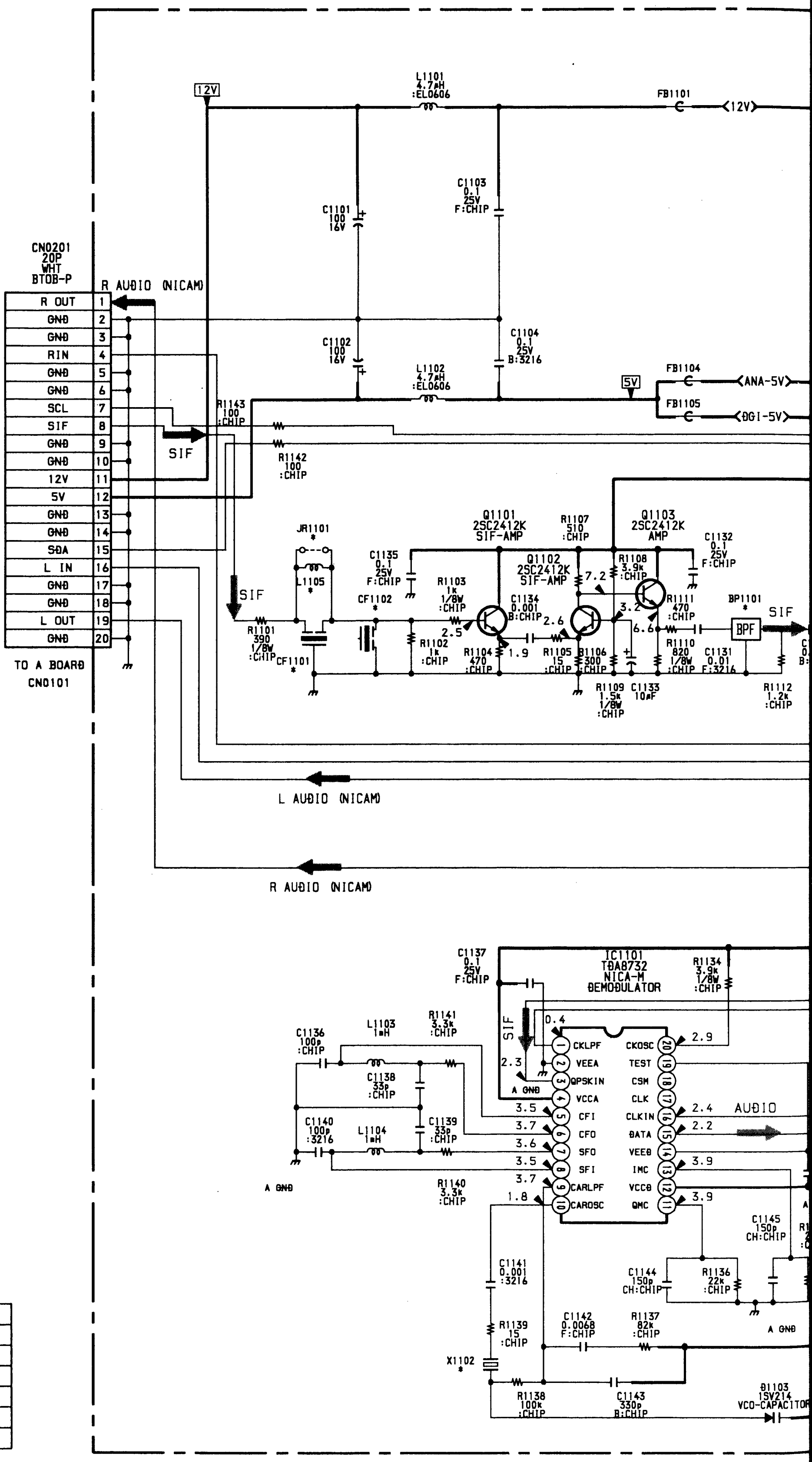
• A1 BOARD IC1102 SAA7282P

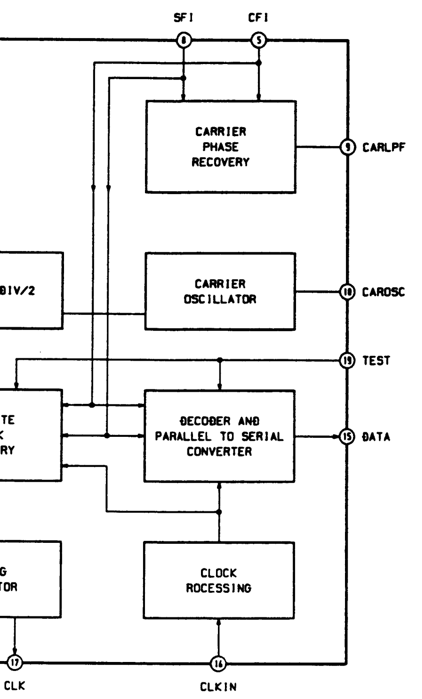

I²C
AUTO MUTE
NICAM 728 DECODING
DIGITAL SWITCHING
FILTER
DE-EMPH
1-BIT DAC
NOISE SHAPER
BIAS
FREQ. SYNTH.
XTAL OSC
DIGITAL AUDIO INTERFACE

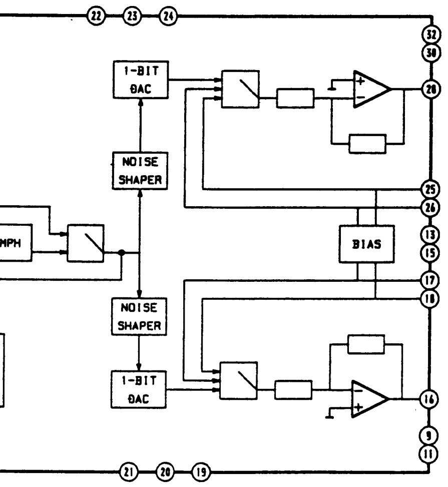
A1 BOARD ∗ MARK

	KV – S2913E	KV – S2912U
BP1101	5.850MHz	6.552MHz
CF1101	–	6.0MHz
CF1102	5.5MHz	–
JR1101	0 : CHIP	–
L1105	–	15 μ H
X1102	11.700MHz	13.104MHz

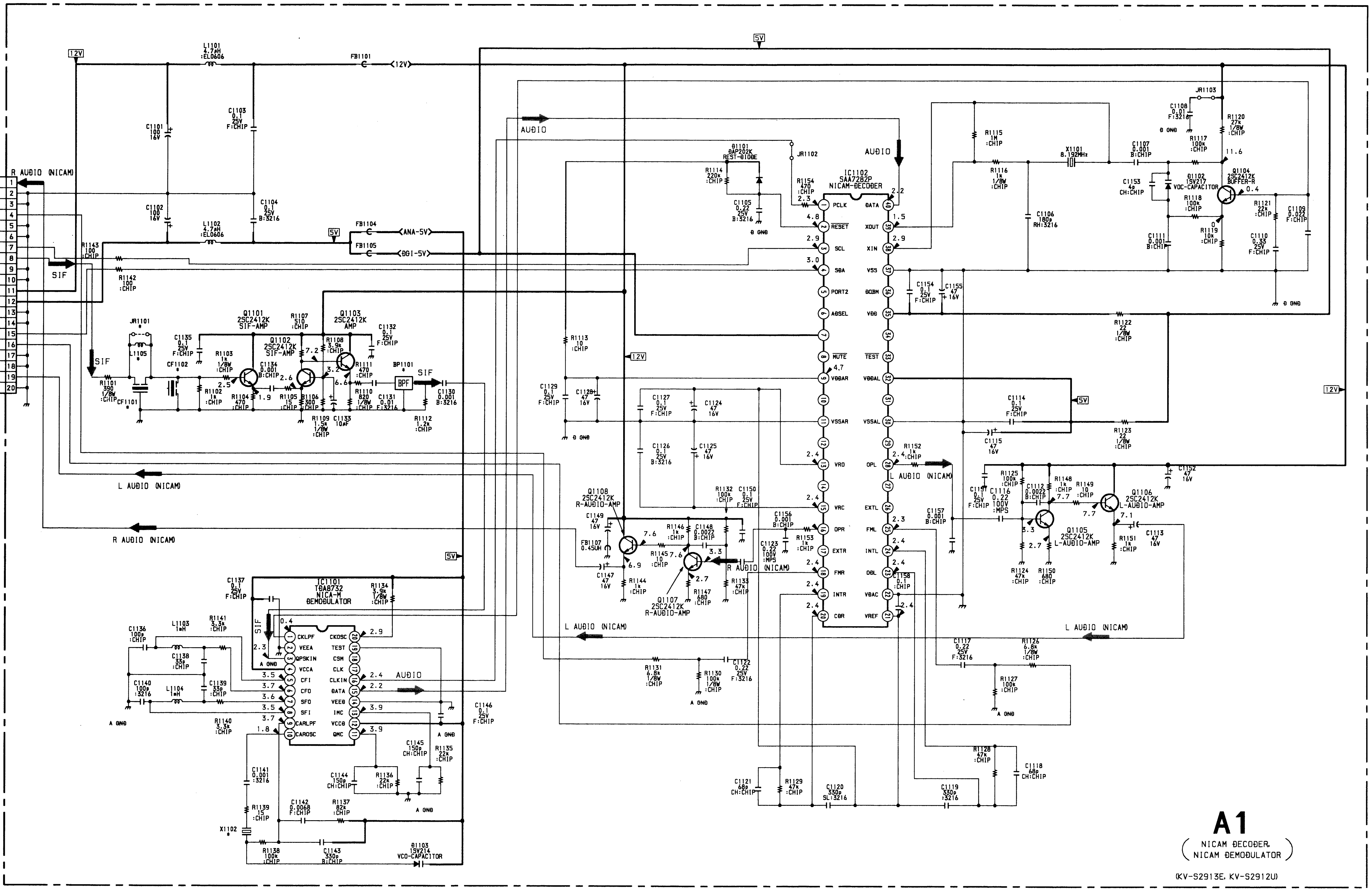
KV-S2912U/S2913E only


12V
L1101 4.7μH :EL0606
FB1101
C1101 100 16V
C1103 0.1 25V F:CHIP
CN0201 20P WHT BTOB-P
R AUDIO (NICAM)
R OUT
GND
RIN
SCL
SIF
12V
5V
SDA
L IN
L OUT
TO A BOARD CN0101
C1102 100 16V
L1102 4.7μH :EL0606
C1104 0.1 25V B:3216
5V
FB1104
ANA-5V
FB1105
DGI-5V
R1143 100 :CHIP
R1142 100 :CHIP
JR1101
L1105
Q1101 2SC2412K SIF-AMP
Q1102 2SC2412K SIF-AMP
Q1103 2SC2412K AMP
BPF
BP1101
CF1101
CF1102
L AUDIO (NICAM)
R AUDIO (NICAM)
IC1101 TDA8732 NICA-M DEMODULATOR
CKLPF
VEEA
QPSKIN
VCCA
CFI
CFO
SFO
SFI
CARLPF
CAROSC
CKOSC
TEST
CSM
CLK
CLKIN
DATA
VEED
VCCD
QMC
AUDIO
A GND
X1102
D1103 1SV214 VCO-CAPACITOR


SFI
CFI
CARRIER PHASE RECOVERY
CARLPF
CARRIER OSCILLATOR
CAROSC
DIV/2
TEST
DECODER AND PARALLEL TO SERIAL CONVERTER
DATA
CLOCK ROCESSING
CLK
CLKIN


1-BIT DAC
NOISE SHAPER
BIAS
NOISE SHAPER
1-BIT DAC

KV-S2912U/S2913E only


CN0201 20P WHT BTOB-P
R AUDIO (NICAM)
R OUT
GND
RIN
SCL
SIF
12V
5V
SDA
L IN
L OUT
TO A BOARD CN0101
12V
L1101 4.7μH :EL0606
FB1101
C1101 100 16V
C1103 0.1 25V F:CHIP
C1102 100 16V
L1102 4.7μH :EL0606
C1104 0.1 25V B:3216
5V
FB1104 ANA-5V
FB1105 DGI-5V
R1143 100 :CHIP
R1142 100 :CHIP
JR1101
L1105
C1135 0.1 25V F:CHIP
CF1102
R1101 390 1/8W :CHIP
CF1101
Q1101 2SC2412K SIF-AMP
R1103 1k 1/8W :CHIP
R1102 1k :CHIP
R1104 470 :CHIP
R1107 510 :CHIP
Q1102 2SC2412K SIF-AMP
C1134 0.001 B:CHIP
R1105 15 :CHIP
R1106 300 :CHIP
Q1103 2SC2412K AMP
R1108 3.9k :CHIP
R1111 470 :CHIP
R1110 820 1/8W :CHIP
R1109 1.5k 1/8W :CHIP
C1133 10μF
C1132 0.1 25V F:CHIP
BP1101
BPF
C1131 0.01 F:3216
C1130 0.001 B:3216
R1112 1.2k :CHIP
L AUDIO (NICAM)
R AUDIO (NICAM)
IC1101 TDA8732 NICA-M DEMODULATOR
C1137 0.1 25V F:CHIP
R1134 3.9k 1/8W :CHIP
R1141 3.3k :CHIP
C1136 100p :CHIP
L1103 1mH
C1138 33p :CHIP
C1140 100p :3216
L1104 1mH
C1139 33p :CHIP
R1140 3.3k :CHIP
CKLPF VEEA QPSKIN VCCA CFI CFO SFO SFI CARLPF CAROSC
CKOSC TEST CSM CLK CLKIN DATA VEED IMC VCCD QMC
AUDIO
A GND
C1146 0.1 25V F:CHIP
C1145 150p CH:CHIP
R1135 22k :CHIP
C1144 150p CH:CHIP
R1136 22k :CHIP
C1141 0.001 :3216
R1139 15 :CHIP
X1102
C1142 0.0068 F:CHIP
R1137 82k :CHIP
R1138 100k :CHIP
C1143 330p B:CHIP
D1103 1SV214 VCO-CAPACITOR
AUDIO
D1101 DAP202K RESET-DIODE
R1114 220k :CHIP
C1105 0.22 25V B:3216
JR1102
R1154 470 :CHIP
IC1102 SAA7282P NICAM-DECODER
PCLK RESET SCL SDA PORT2 ADSEL MUTE VDDAR VSSAR VRO VRC OPR EXTR FMR INTR CGR
DATA XOUT XIN VSS DGBM VDD TEST VDDAL VSSAL OPL EXTL FML INTL DDL VDAC VREF
R1113 10 :CHIP
C1129 0.1 25V F:CHIP
C1128 47 16V
C1127 0.1 25V F:CHIP
C1124 47 16V
C1126 0.1 25V B:3216
C1125 47 16V
Q1108 2SC2412K R-AUDIO-AMP
C1149 47 16V
FB1107 0.45UH
C1147 47 16V
R1144 1k :CHIP
R1146 1k :CHIP
C1148 0.0022 B:CHIP
R1145 10 :CHIP
Q1107 2SC2412K R-AUDIO-AMP
R1147 680 :CHIP
R1132 100k :CHIP
C1150 0.1 25V F:CHIP
C1156 0.001 B:CHIP
C1123 0.22 100V :MPS
R1153 1k :CHIP
R1133 47k :CHIP
R AUDIO (NICAM)
R1131 6.8k 1/8W :CHIP
R1130 100k 1/8W :CHIP
C1122 0.22 25V F:3216
C1121 68p CH:CHIP
R1129 47k :CHIP
C1120 330p SL:3216
R1115 1M :CHIP
R1116 1k 1/8W :CHIP
X1101 8.192MHz
C1106 180p RH:3216
C1154 0.1 25V F:CHIP
C1155 47 16V
R1122 22 1/8W :CHIP
C1114 0.1 25V F:CHIP
C1115 47 16V
R1123 22 1/8W :CHIP
R1152 1k :CHIP
L AUDIO (NICAM)
C1108 0.01 F:3216
JR1103
C1107 0.001 B:CHIP
C1153 4p CH:CHIP
D1102 1SV217 VDC-CAPACITOR
R1117 100k :CHIP
R1118 100k :CHIP
R1119 10k :CHIP
C1111 0.001 B:CHIP
R1120 27k 1/8W :CHIP
Q1104 2SC2412K BUFFER-R
R1121 22k :CHIP
C1109 0.022 F:CHIP
C1110 0.33 25V F:CHIP
D GND
R1125 100k :CHIP
C1151 0.1 25V F:CHIP
C1116 0.22 100V :MPS
C1112 0.0022 B:CHIP
R1148 1k :CHIP
R1149 10 :CHIP
Q1106 2SC2412K L-AUDIO-AMP
C1152 47 16V
C1157 0.001 B:CHIP
Q1105 2SC2412K L-AUDIO-AMP
R1151 1k :CHIP
C1113 47 16V
R1124 47k :CHIP
R1150 680 :CHIP
L AUDIO (NICAM)
C1117 0.22 25V F:3216
R1126 6.8k 1/8W :CHIP
R1127 100k :CHIP
R1128 47k :CHIP
C1118 68p CH:CHIP
C1119 330p :3216
12V
A1
NICAM DECODER, NICAM DEMODULATOR
(KV-S2913E, KV-S2912U)

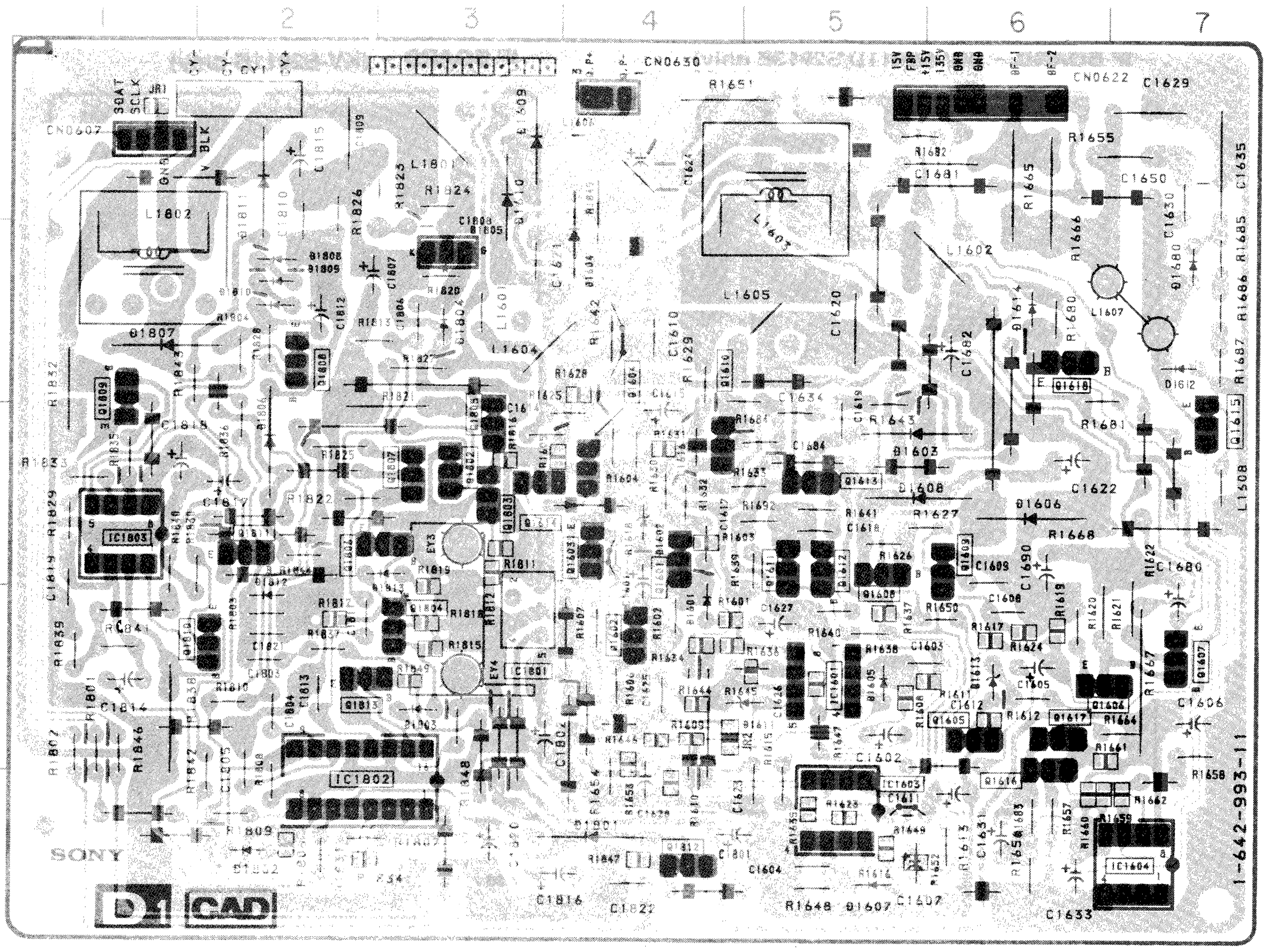
A1 BOARD ∗ MARK

	KV – S2913E	KV – S2912U
BP1101	5.850MHz	6.552MHz
CF1101	–	6.0MHz
CF1102	5.5MHz	–
JR1101	0 : CHIP	–
L1105	–	15 μ H
X1102	11.700MHz	13.104MHz

B-SS4178<AEP>-A1.

D1 [DYNAMIC CONVERGENCE] A1 [NICAM DECODER, NICAM DEMODULATOR] KV-S2912U/S2913E only

– D1 BOARD –

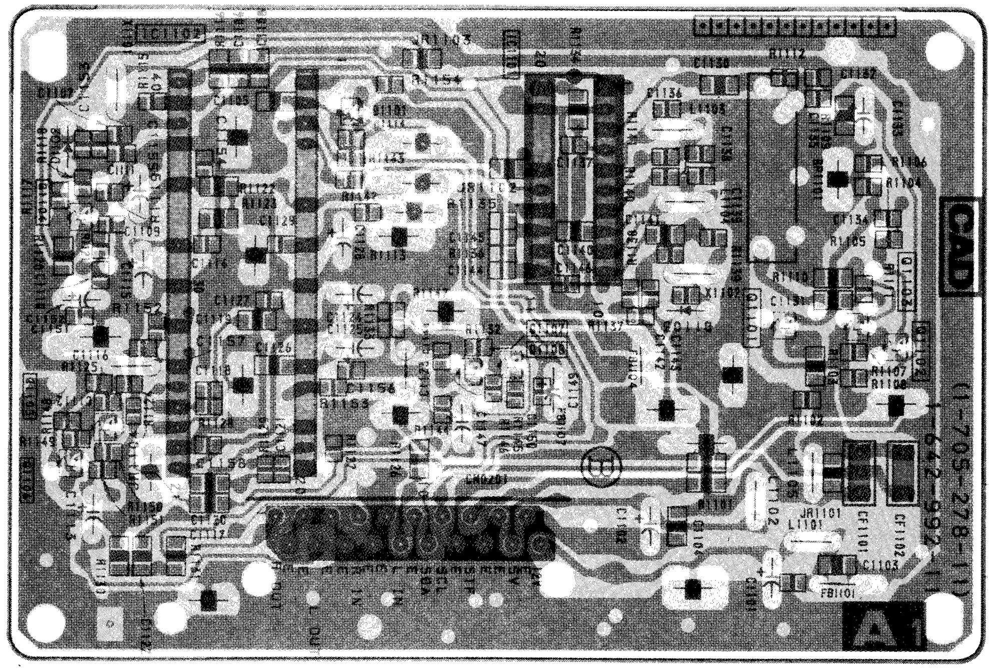

1
2
3
4
5
6
7
A
B
C
D
E
CN0630
CN0622
C1629
R1651
R1655
C1650
L1801
L1802
L1602
L1603
L1604
L1605
L1607
Q1807
IC1803
IC1802
IC1801
IC1604
Q1603
D1608
D1606
R1668
R1627
C1622
C1680
C1606
R1658
C1633
R1648
D1607
C1816
C1822
L1508
SONY
D1
CAD
1-642-993-11

IC	
IC1601	D – 5
IC1603	E – 5
IC1604	E – 7
IC1801	D – 3
IC1802	E – 2
IC1803	C – 1

TRANSISTOR	
Q1601	C – 4
Q1602	D – 4
Q1603	C – 4
Q1604	C – 4
Q1605	D – 6
Q1606	D – 6
Q1607	D – 7
Q1608	C – 5
Q1609	C – 6
Q1610	C – 4
Q1611	C – 5
Q1612	C – 5
Q1613	C – 5
Q1614	C – 3
Q1615	C – 7
Q1616	D – 6
Q1617	D – 6
Q1618	B – 6
Q1802	C – 3
Q1803	C – 3
Q1804	D – 3
Q1805	C – 3
Q1806	C – 3
Q1807	C – 3
Q1808	B – 2
Q1809	B – 1
Q1810	D – 2
Q1811	C – 2
Q1812	E – 4
Q1813	D – 2

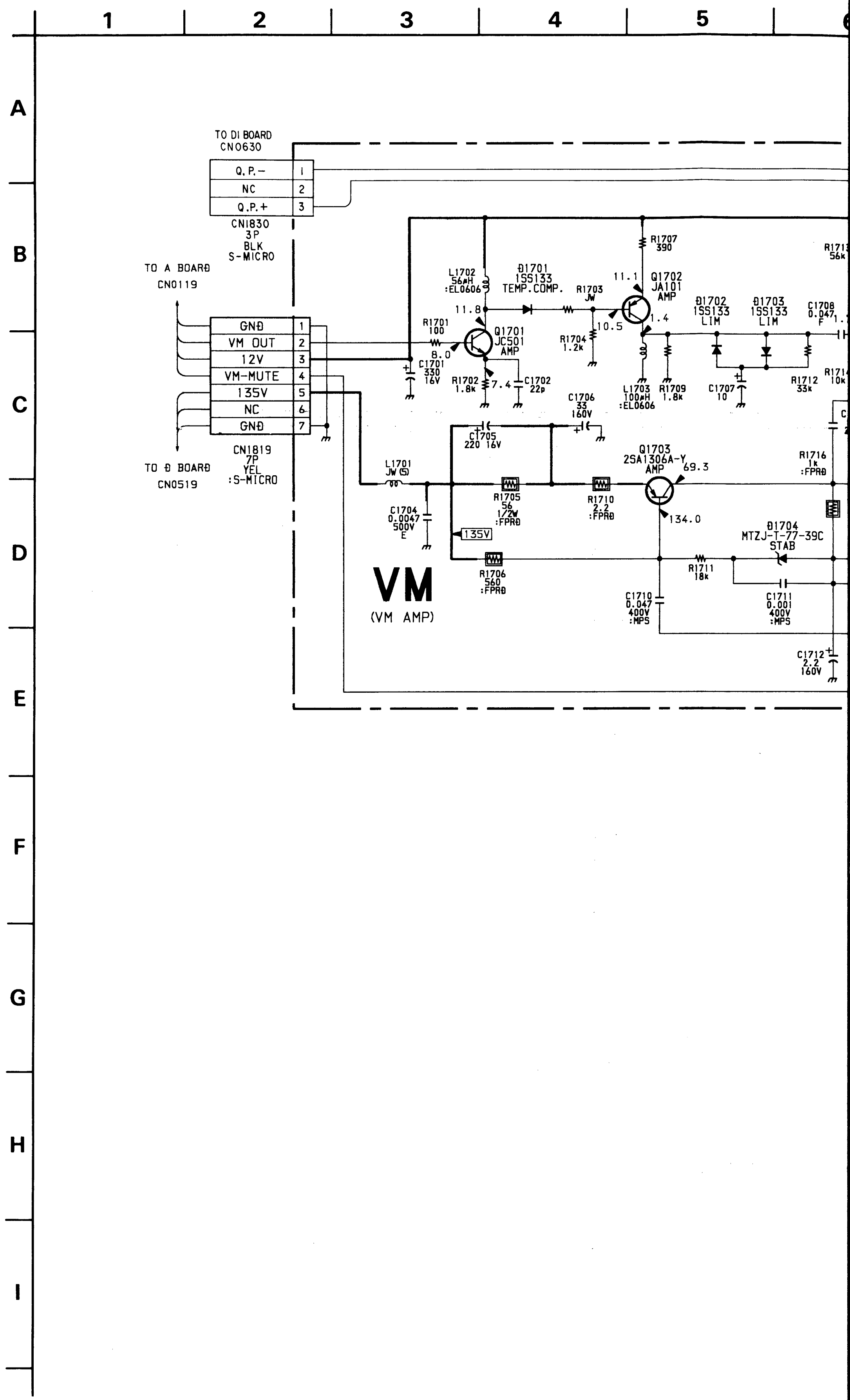
DIODE	
D1601	D – 4
D1602	C – 4
D1603	C – 5
D1605	D – 5
D1606	C – 6
D1607	D – 5
D1608	C – 5
D1611	D – 5
D1612	B – 7
D1613	D – 6
D1614	B – 6
D1680	B – 7
D1801	E – 4
D1802	E – 2
D1803	D – 3
D1804	B – 3
D1805	B – 3
D1806	C – 2
D1807	B – 1
D1808	B – 2
D1809	B – 2
D1810	B – 2
D1811	A – 2
D1812	D – 2
D1813	C – 3

– A1 BOARD – KV-S2912U/S2913E only

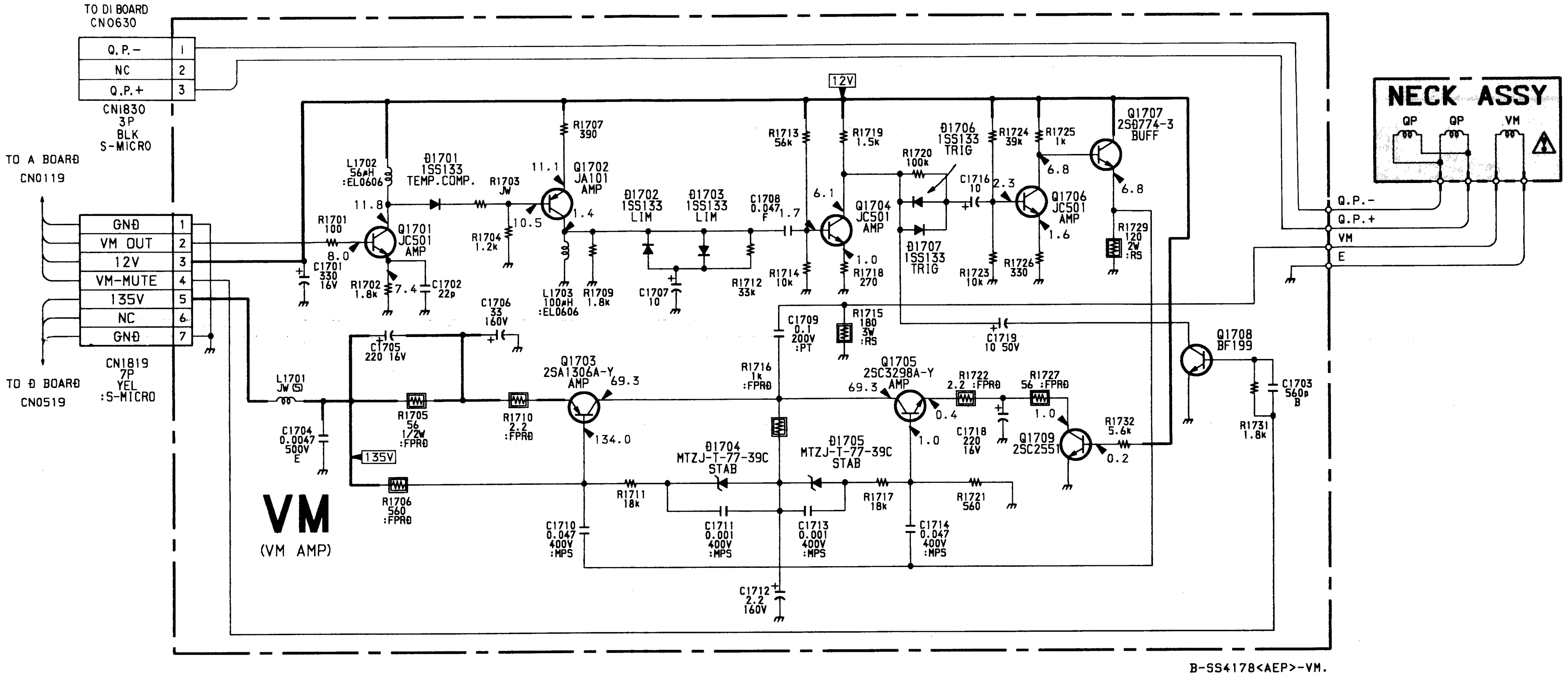

IC1103
R1103
R1104
R1105
R1106
R1107
R1108
C1136
C1137
C1101
C1102
C1103
L1101
JR1101
CF1101
CF1102
FB1101
CN0201
CAD
A1
1-705-278-11
1-642-992-11

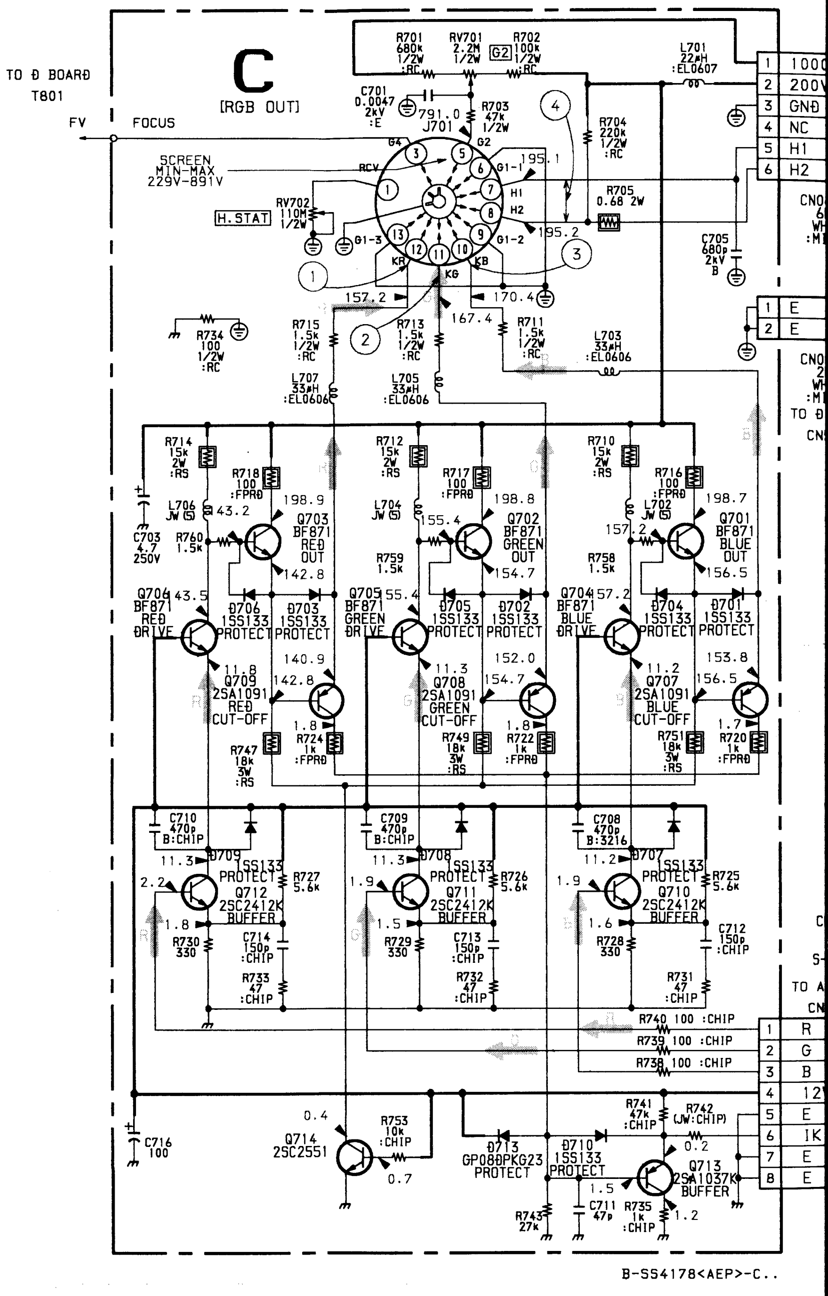
Note :

- ▨ : Pattern from the side which enables seeing.
- ▨ : Pattern of the rear side.


1
2
3
4
5
A
B
C
D
E
F
G
H
I
TO D1 BOARD
CN0630
Q.P.–
NC
Q.P.+
CN1830
3P
BLK
S-MICRO
TO A BOARD
CN0119
GND
VM OUT
12V
VM-MUTE
135V
NC
GND
CN1819
7P
YEL
:S-MICRO
TO D BOARD
CN0519
L1702
56μH
:EL0606
D1701
1SS133
TEMP.COMP.
R1703
JW
R1707
390
Q1702
JA101
AMP
11.1
11.8
10.5
1.4
R1701
100
Q1701
JC501
AMP
8.0
7.4
C1701
330
16V
R1702
1.8k
C1702
22p
R1704
1.2k
L1703
100μH
:EL0606
R1709
1.8k
D1702
1SS133
LIM
D1703
1SS133
LIM
C1707
10
C1708
0.047
F
R1712
33k
R1713
56k
R1714
10k
C1706
33
160V
C1705
220 16V
L1701
JW (5)
C1704
0.0047
500V
E
R1705
56
1/2W
:FPRD
R1710
2.2
:FPRD
135V
R1706
560
:FPRD
Q1703
2SA1306A-Y
AMP
69.3
134.0
R1716
1k
:FPRD
D1704
MTZJ-T-77-39C
STAB
R1711
18k
C1710
0.047
400V
:MPS
C1711
0.001
400V
:MPS
C1712
2.2
160V
VM
(VM AMP)

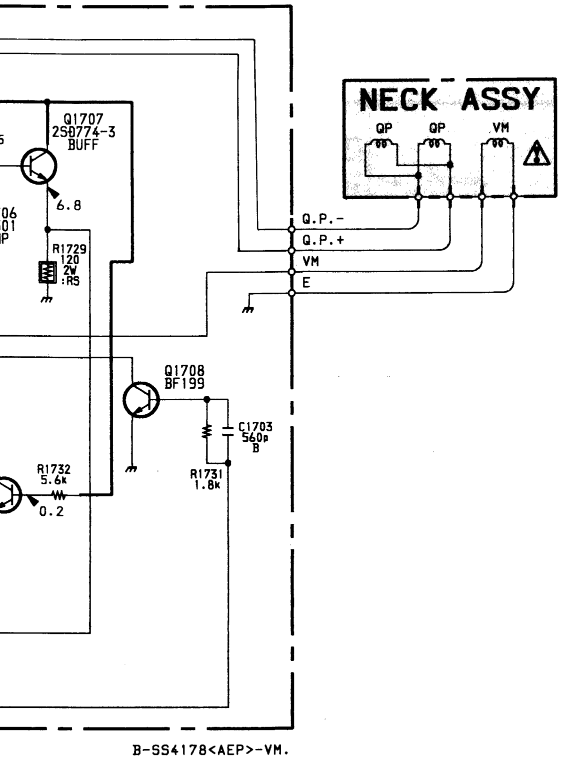
ODE
D-4
C-4
C-5
D-5
C-6
D-5
C-5
D-5
B-7
D-6
B-6
B-7
E-4
E-2
D-3
B-3
B-3
C-2
B-1
B-2
B-2
B-2
A-2
D-2
C-3


TO D1 BOARD CN0630
Q.P.-
NC
Q.P.+
CN1830 3P BLK S-MICRO
TO A BOARD CN0119
GND
VM OUT
12V
VM-MUTE
135V
NC
GND
CN1819 7P YEL :S-MICRO
TO D BOARD CN0519
NECK ASSY
QP
QP
VM
Q.P.-
Q.P.+
VM
E
12V
135V
Q1701 JC501 AMP
Q1702 JA101 AMP
Q1703 2SA1306A-Y AMP
Q1704 JC501 AMP
Q1705 2SC3298A-Y AMP
Q1706 JC501 AMP
Q1707 2SD774-3 BUFF
Q1708 BF199
Q1709 2SC2551
D1701 1SS133 TEMP.COMP.
D1702 1SS133 LIM
D1703 1SS133 LIM
D1704 MTZJ-T-77-39C STAB
D1705 MTZJ-T-77-39C STAB
D1706 1SS133 TRIG
D1707 1SS133 TRIG
VM
(VM AMP)
B-SS4178<AEP>-VM.

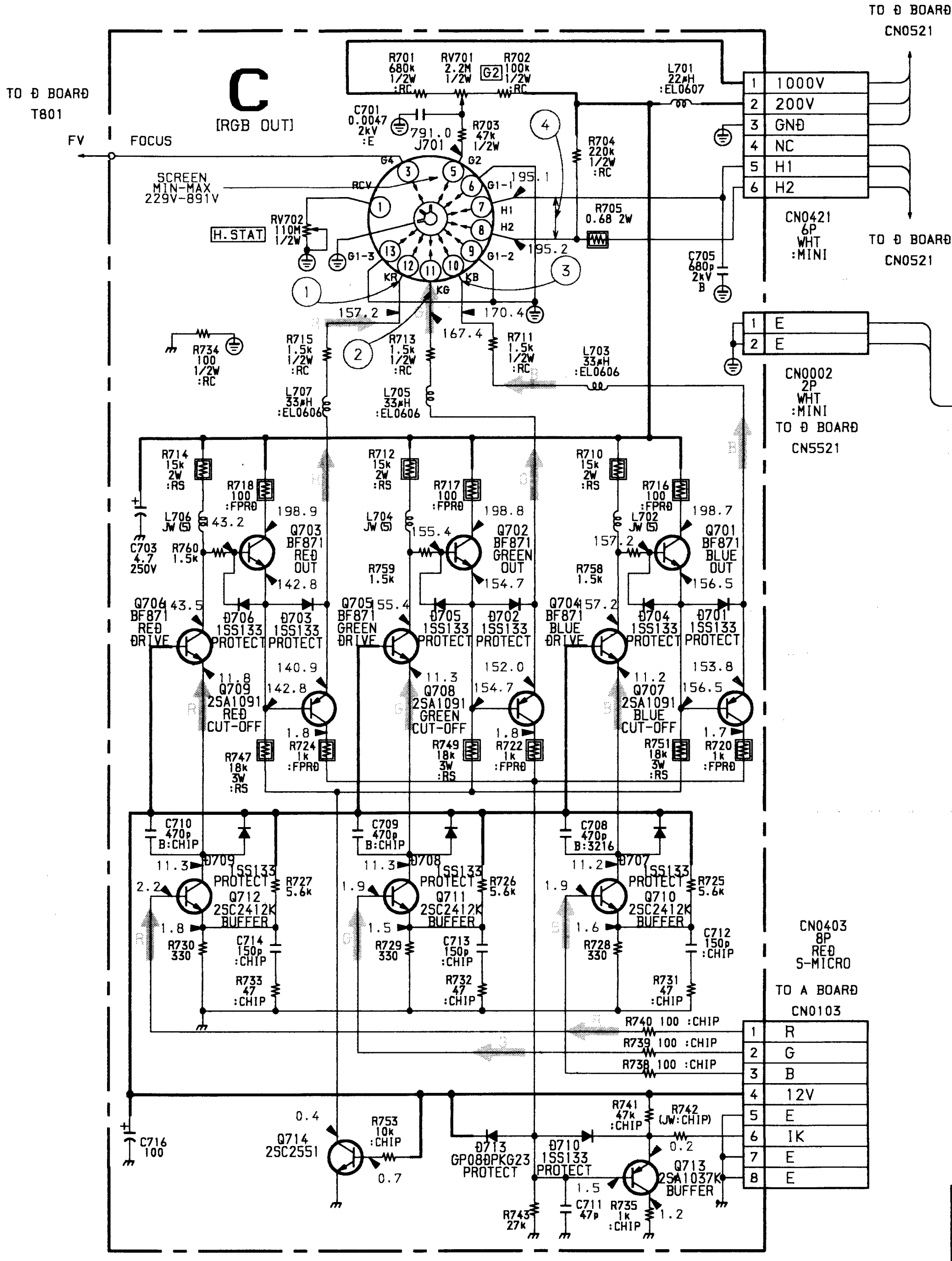

TO D BOARD T801
FV
FOCUS
C
[RGB OUT]
SCREEN MIN-MAX 229V-891V
H.STAT
J701
Q701 BF871 BLUE OUT
Q702 BF871 GREEN OUT
Q703 BF871 RED OUT
Q704 BF871 RED DRIVE
Q705 BF871 GREEN DRIVE
Q706 BF871 BLUE DRIVE
Q707 2SA1091 BLUE CUT-OFF
Q708 2SA1091 GREEN CUT-OFF
Q709 2SA1091 RED CUT-OFF
Q710 2SC2412K BUFFER
Q711 2SC2412K BUFFER
Q712 2SC2412K BUFFER
Q713 2SA1037K BUFFER
Q714 2SC2551
D713 GP08DPKG23 PROTECT
D710 1SS133 PROTECT
R
G
B
12V
E
IK
E
E
B-SS4178<AEP>-C..

8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19

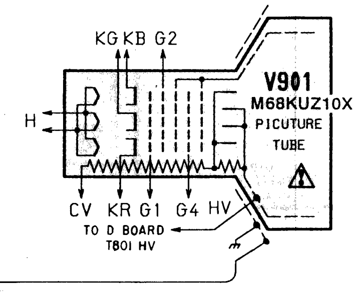
VM [VM AMP] C [R. G. B OUT]


NECK ASSY
QP
QP
VM
Q1707
2SD774-3
BUFF
6.8
R1729
120
2W
:RS
Q.P.-
Q.P.+
VM
E
Q1708
BF199
C1703
560p
B
R1732
5.6k
R1731
1.8k
0.2

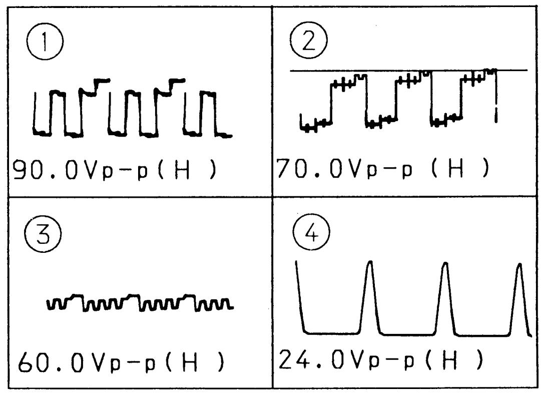
B-SS4178<AEP>-VM.


C
[RGB OUT]
TO B BOARD
T801
FV
FOCUS
SCREEN
MIN-MAX
229V-891V
RV702
110M
1/2W
H.STAT
R701
680k
1/2W
:RC
RV701
2.2M
1/2W
G2
R702
100k
1/2W
:RC
C701
0.0047
2kV
:E
791.0
J701
R703
47k
1/2W
R704
220k
1/2W
:RC
R705
0.68 2W
195.1
195.2
157.2
170.4
167.4
L701
22μH
:EL0607
1 1000V
2 200V
3 GND
4 NC
5 H1
6 H2
TO D BOARD
CN0521
CN0421
6P
WHT
:MINI
C705
680p
2kV
B
1 E
2 E
CN0002
2P
WHT
:MINI
TO D BOARD
CN5521
R734
100
1/2W
:RC
R715
1.5k
1/2W
:RC
R713
1.5k
1/2W
:RC
R711
1.5k
1/2W
:RC
L707
33μH
:EL0606
L705
33μH
:EL0606
L703
33μH
:EL0606
R714
15k
2W
:RS
R718
100
:FPRD
R712
15k
2W
:RS
R717
100
:FPRD
R710
15k
2W
:RS
R716
100
:FPRD
198.9
198.8
198.7
43.2
155.4
157.2
Q703
BF871
RED
OUT
Q702
BF871
GREEN
OUT
Q701
BF871
BLUE
OUT
C703
4.7
250V
R760
1.5k
R759
1.5k
R758
1.5k
142.8
154.7
156.5
Q704
BF871
RED
DRIVE
Q705
BF871
GREEN
DRIVE
Q706
BF871
BLUE
DRIVE
D706
1SS133
PROTECT
D703
1SS133
PROTECT
D705
1SS133
PROTECT
D702
1SS133
PROTECT
D704
1SS133
PROTECT
D701
1SS133
PROTECT
Q709
2SA1091
RED
CUT-OFF
Q708
2SA1091
GREEN
CUT-OFF
Q707
2SA1091
BLUE
CUT-OFF
R747
18k
3W
:RS
R724
1k
:FPRD
R749
18k
3W
:RS
R722
1k
:FPRD
R751
18k
3W
:RS
R720
1k
:FPRD
C710
470p
B:CHIP
C709
470p
B:CHIP
C708
470p
B:3216
D709
1SS133
PROTECT
D708
1SS133
PROTECT
D707
1SS133
PROTECT
Q712
2SC2412K
BUFFER
Q711
2SC2412K
BUFFER
Q710
2SC2412K
BUFFER
R727
5.6k
R726
5.6k
R725
5.6k
R730
330
R729
330
R728
330
C714
150p
:CHIP
C713
150p
:CHIP
C712
150p
:CHIP
R733
47
:CHIP
R732
47
:CHIP
R731
47
:CHIP
CN0403
8P
RED
S-MICRO
TO A BOARD
CN0103
R740 100 :CHIP
R739 100 :CHIP
R738 100 :CHIP
1 R
2 G
3 B
4 12V
5 E
6 IK
7 E
8 E
C716
100
Q714
2SC2551
R753
10k
:CHIP
D713
GP08DPK023
PROTECT
D710
1SS133
PROTECT
R741
47k
:CHIP
R742
(JW:CHIP)
Q713
2SA1037K
BUFFER
C711
47p
R735
1k
:CHIP
R743
27k
① ② ③ ④

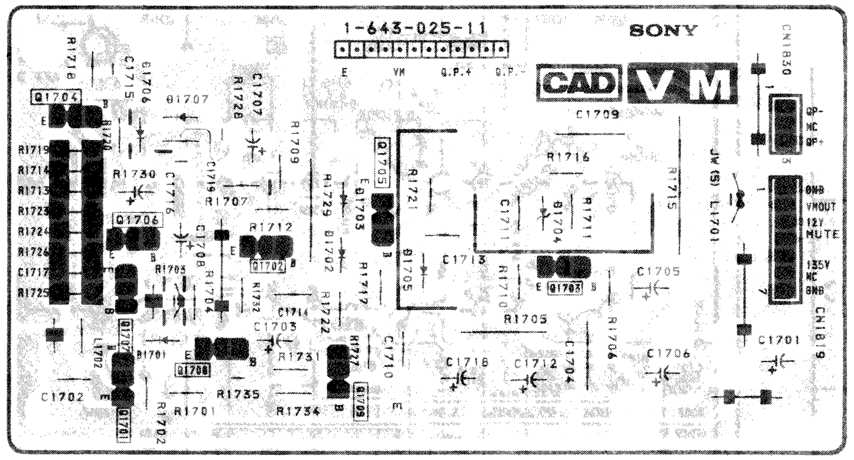
B-SS4178<AEP>-C..


KG KB G2
H
V901
M68KUZ10X
PICUTURE
TUBE
CV KR G1 G4 HV
TO D BOARD
T801 HV

• WAVEFORMS C BOARD



– VM BOARD –


1-643-025-11
SONY
CAD
VM
CN1830
CN1819
Q1704
Q1706
Q1707
Q1705
Q1701
Q1702
Q1708
C1702
C1703
C1705
C1706
C1709
C1701
R1716
R1715
R1705
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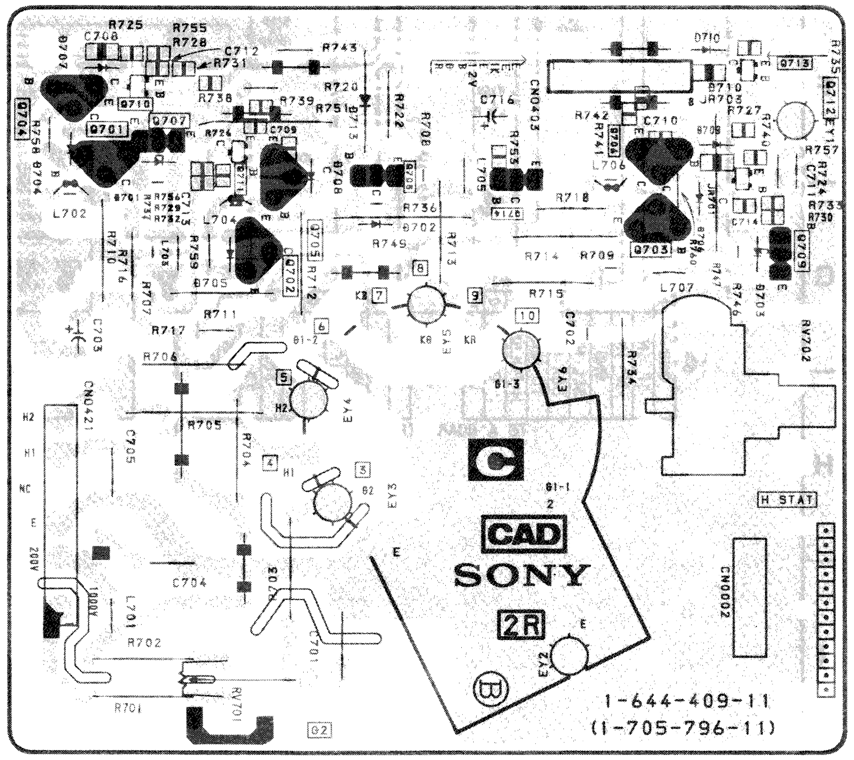
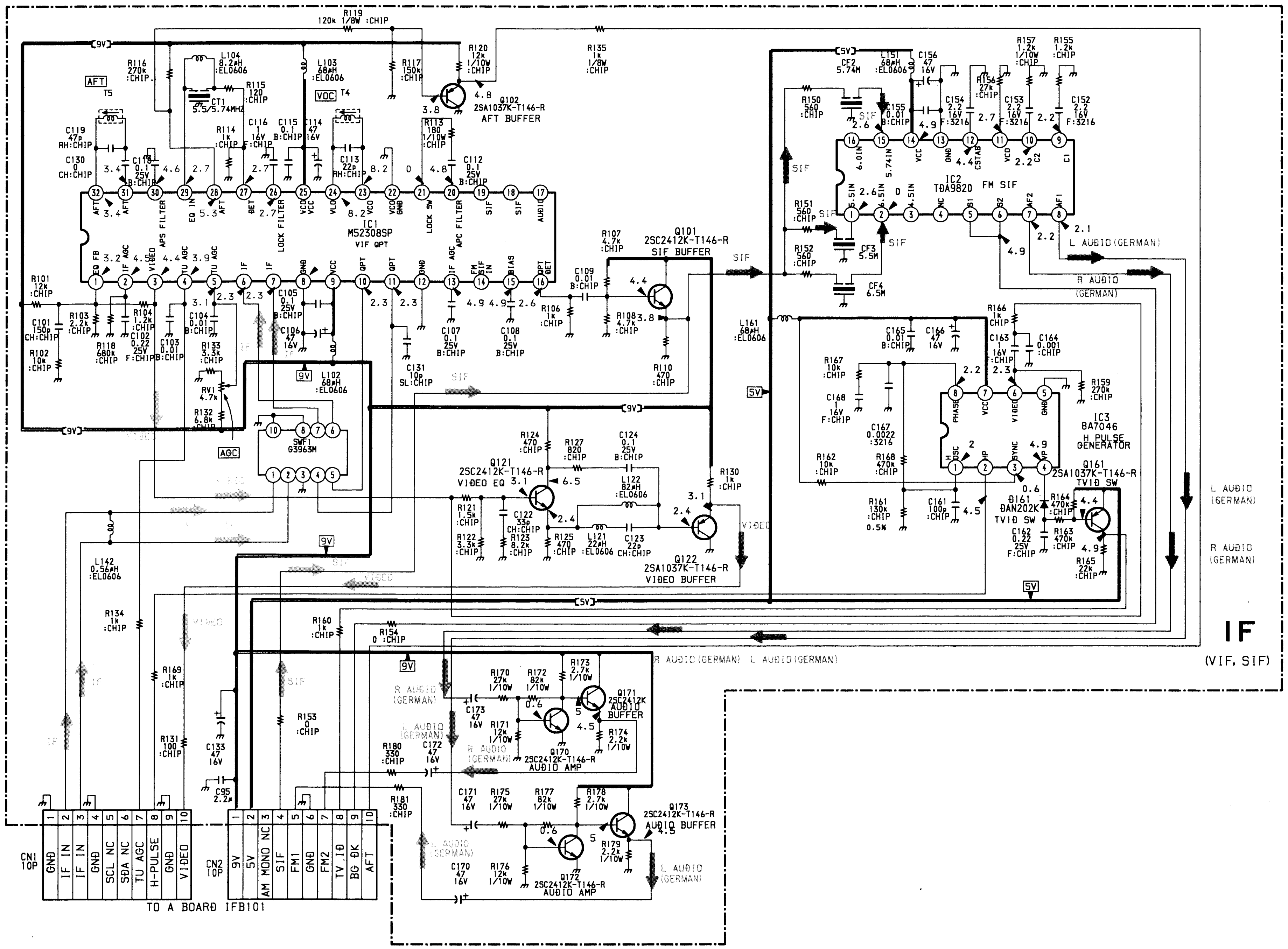
R1701
R1702
R1734
R1735
R1731
R1730
R1712
L1701

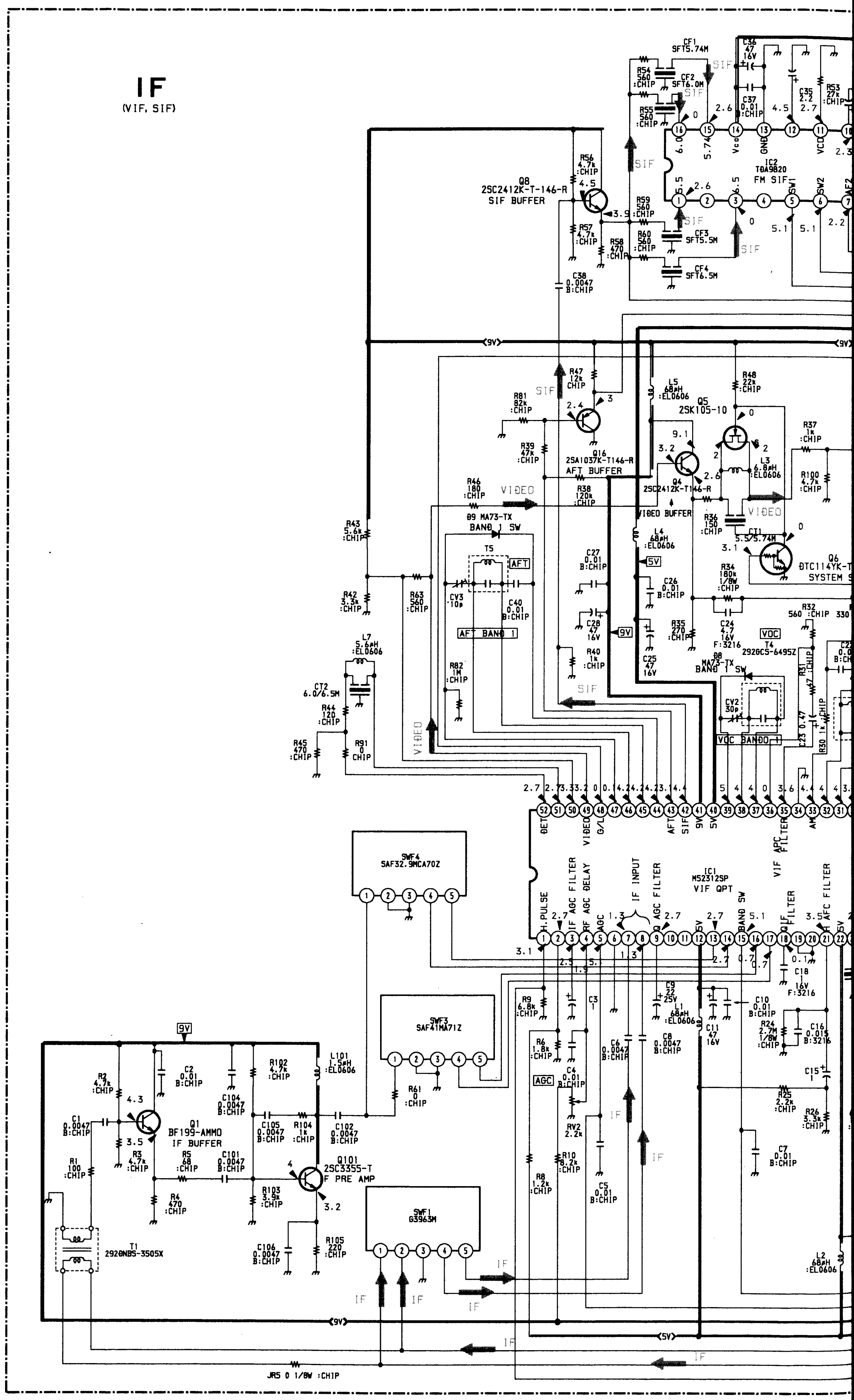
– C BOARD –

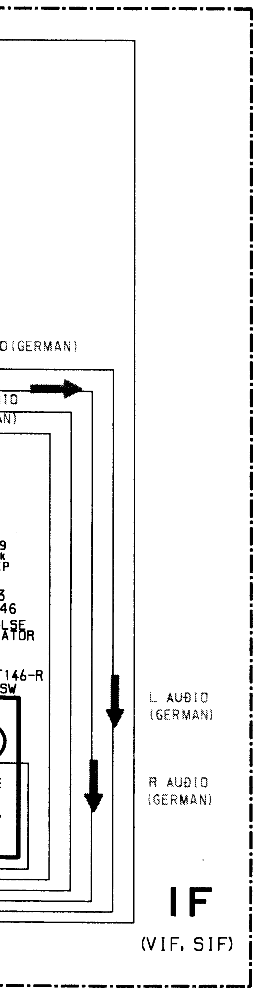

C
CAD
SONY
2R
1-644-409-11
(1-705-796-11)
CN0421
CN0403
CN0002
H STAT
RV702
RV701
R725
R755
R728
R743
R731
R720
R722
R739
R751
R736
R749
R714
R709
R715
R717
R711
R705
R706
R734
R702
R701
L702
L704
L705
L706
L707
L701
C704
C705
C716
C710
Q701
Q703
Q704
Q707
Q709
Q710
Q712
Q713
D701
D702
D705
D707
D710
H1
H2
KR
KB
G2

IFH389 KV-S2911D/S2913E only

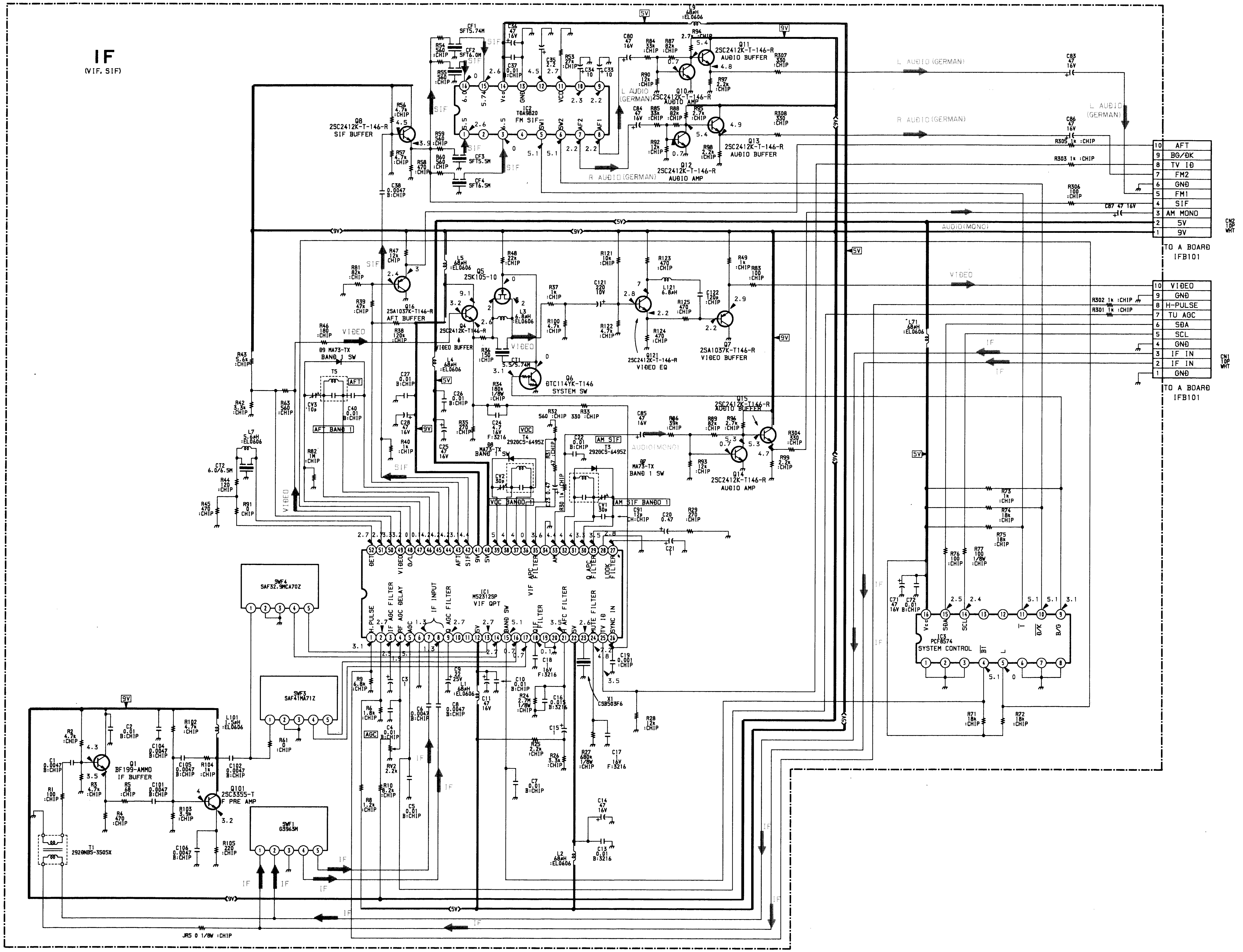

IF
(VIF, SIF)
IC1 M52308SP VIF QPT
IC2 TDA9820 FM SIF
IC3 BA7046 H PULSE GENERATOR
Q101 2SC2412K-T146-R SIF BUFFER
Q102 2SA1037K-T146-R AFT BUFFER
Q121 2SC2412K-T146-R VIDEO EQ
Q122 2SA1037K-T146-R VIDEO BUFFER
Q161 2SA1037K-T146-R TVID SW
D161 DAN202K TVID SW
Q170 2SC2412K-T146-R AUDIO AMP
Q171 2SC2412K AUDIO BUFFER
Q172 2SC2412K-T146-R AUDIO AMP
Q173 2SC2412K-T146-R AUDIO BUFFER
SWF1 G3963M
AFT
VOC
AGC
R AUDIO (GERMAN)
L AUDIO (GERMAN)
CN1 10P
GND
IF IN
IF IN
GND
SCL NC
SDA NC
TU AGC
H-PULSE
GND
VIDEO
CN2 10P
9V
5V
AM MONO NC
SIF
FM1
GND
FM2
TV ID
BG DK
AFT
TO A BOARD IFB101

IFH389S KV-S2911B only

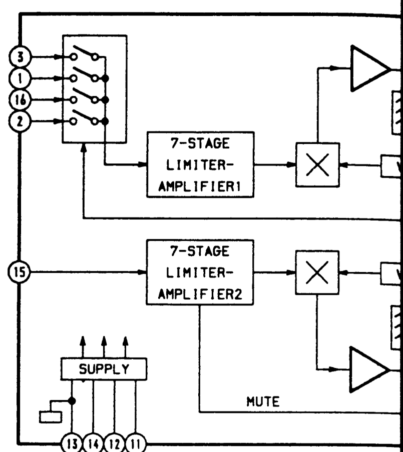

IF
(VIF, SIF)
IC1 M52312SP VIF QPT
IC2 TDA9820 FM SIF
Q1 BF199-AMMO IF BUFFER
Q101 2SC3355-T IF PRE AMP
Q4 2SC2412K-T146-R VIDEO BUFFER
Q5 2SK105-10
Q6 DTC114YK-T SYSTEM SW
Q8 2SC2412K-T-146-R SIF BUFFER
Q16 2SA1037K-T146-R AFT BUFFER
SWF1 G3963M
SWF3 SAF41MA71Z
SWF4 SAF32.9MCA70Z
T1 2920HBS-3505X
T5 BAND 1 SW
AFT
VOC
AGC
BAND 1
JR5 0 1/8W :CHIP


(GERMAN)
L AUDIO (GERMAN)
R AUDIO (GERMAN)
IF
(VIF, SIF)

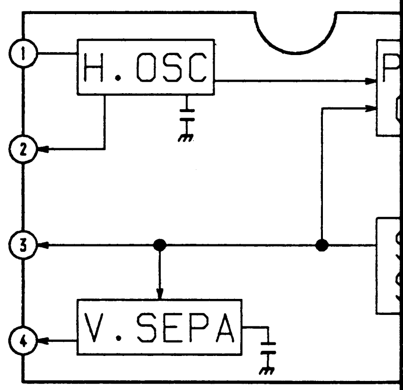
IFH389S KV-S2911B only


IF
(VIF, SIF)
IC2 TDA9820 FM SIF
CF1 SFT5.74M
CF2 SFT6.0M
CF3 SFT5.5M
CF4 SFT6.5M
Q8 2SC2412K-T-146-R SIF BUFFER
Q11 2SC2412K-T-146-R AUDIO BUFFER
Q10 2SC2412K-T-146-R AUDIO AMP
Q13 2SC2412K-T-146-R AUDIO BUFFER
Q12 2SC2412K-T-146-R AUDIO AMP
L AUDIO (GERMAN)
R AUDIO (GERMAN)
AUDIO (MONO)
Q16 2SA1037K-T146-R AFT BUFFER
Q5 2SK105-10
Q4 2SC2412K-T146-R VIDEO BUFFER
Q6 DTC114YK-T146 SYSTEM SW
Q121 2SC2412K-T-146-R VIDEO EQ
Q7 2SA1037K-T146-R VIDEO BUFFER
Q15 2SC2412K-T-146-R AUDIO BUFFER
Q14 2SC2412K-T-146-R AUDIO AMP
D9 MA73-TX BAND 1 SW
D8 MA73-TX BAND 1 SW
D7 MA73-TX BAND 1 SW
T5 AFT
AFT BAND 1
T4 2920C5-6495Z VOC
VOC BAND 1
T3 2920C5-6495Z AM SIF
AM SIF BAND 1
CT1 5.74M
CT2 6.0/6.5M
VIDEO
SIF
IC1 M52312SP VIF QPT
H.PULSE IF AGC RF AGC DELAY IF INPUT AGC FILTER BAND SW VIF FILTER DIF FILTER AFC FILTER MUTE FILTER TV ID SYNC IN
DET VIDEO AFT SIF AM VIF APC FILTER LOCK FILTER
X1 CSB503F6
SWF4 SAF32.9MCA70Z
SWF3 SAF41MA71Z
SWF1 G3965M
Q1 BF199-AMMO IF BUFFER
Q101 2SC5355-T IF PRE AMP
T1 2920NB5-3505X
JR5 0 1/8W :CHIP
IC3 PCF8574 SYSTEM CONTROL
Vcc SDA SCL TI B/K B/G BI L
10 AFT
9 BG/DK
8 TV ID
7 FM2
6 GND
5 FM1
4 SIF
3 AM MONO
2 5V
1 9V
TO A BOARD IFB101
CN2 10P WHT
10 VIDEO
9 GND
8 H-PULSE
7 TU AGC
6 SDA
5 SCL
4 GND
3 IF IN
2 IF IN
1 GND
TO A BOARD IFB101
CN1 10P WHT
5V
9V

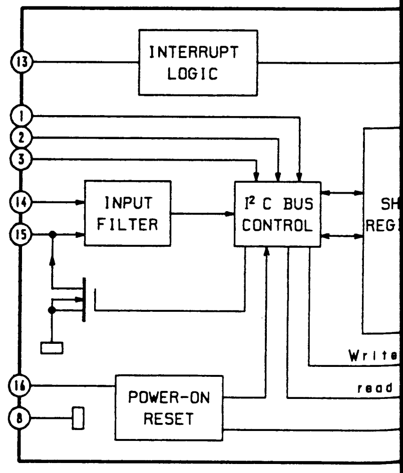
• IF BOARD IC2 TDA9820 (KV-S2

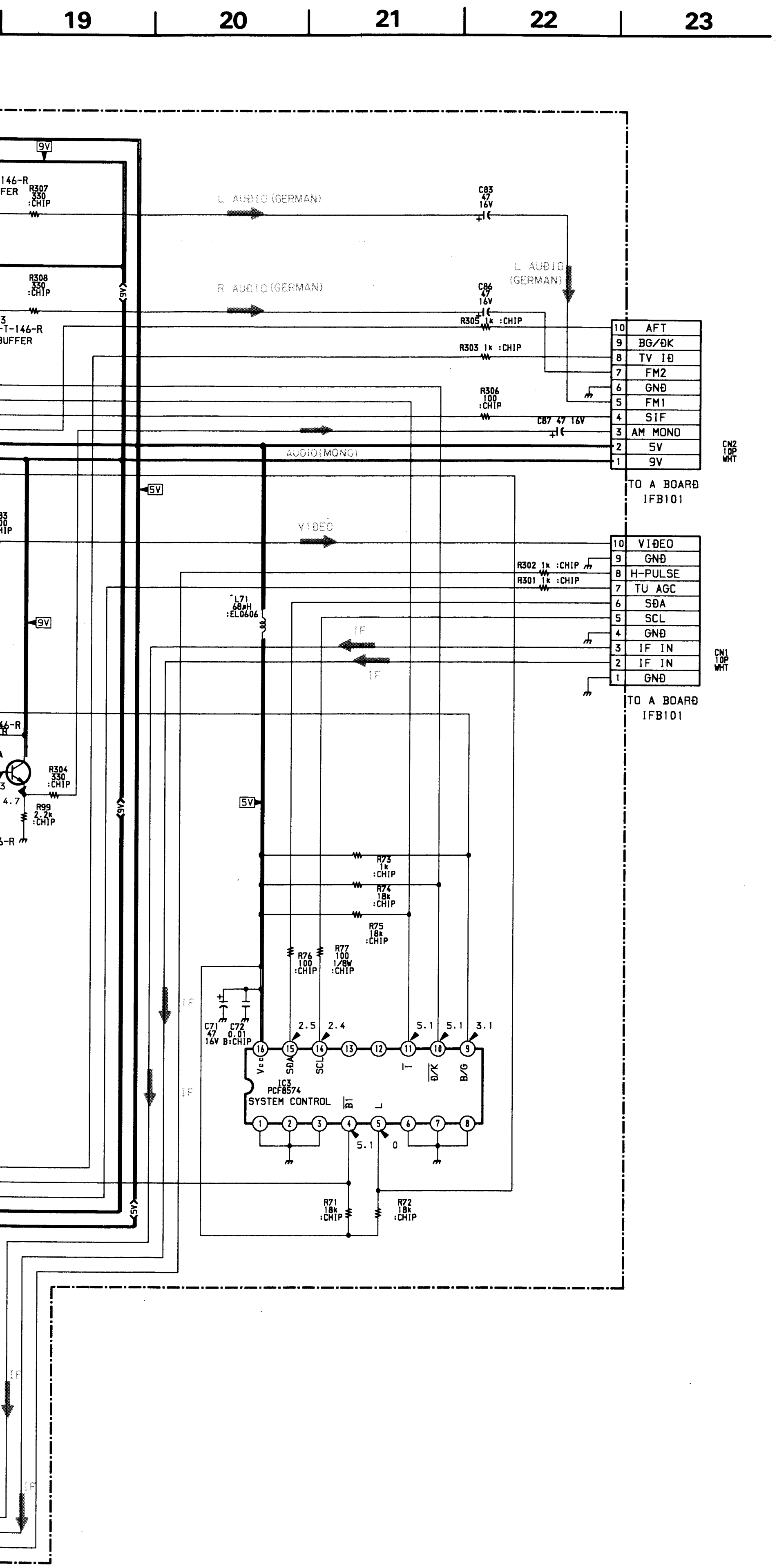

③
①
⑯
②
⑮
7-STAGE LIMITER-AMPLIFIER1
7-STAGE LIMITER-AMPLIFIER2
SUPPLY
MUTE
⑬⑭⑫⑪

• IF BOARD IC3 BA7046 (KV-S2

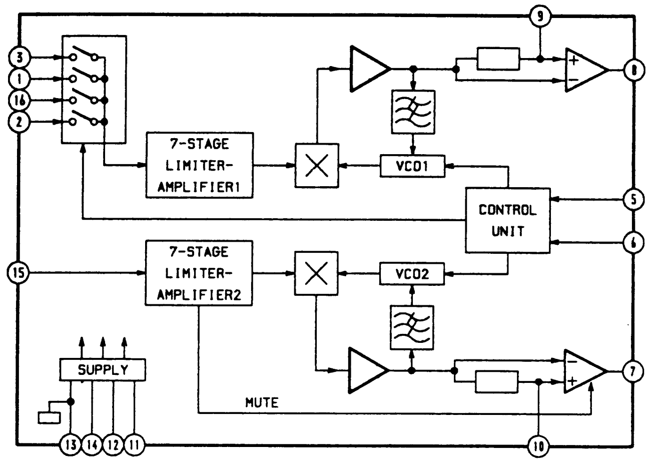

①
H.OSC
②
③
④
V.SEPA

• IF BOARD IC3 PCF8574 (KV-S2

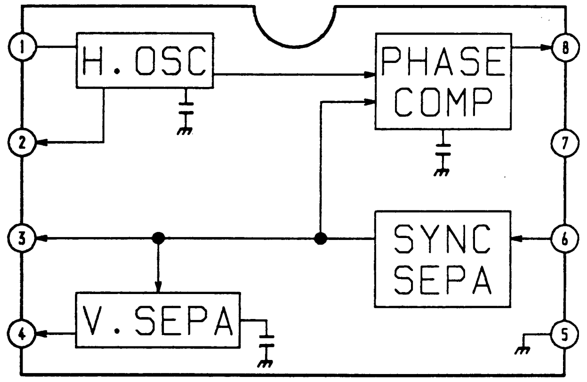

⑬
INTERRUPT LOGIC
①
②
③
⑭
⑮
INPUT FILTER
I² C BUS CONTROL
SH REG
Write
read
⑯
⑧
POWER-ON RESET


19
20
21
22
23
L AUDIO (GERMAN)
R AUDIO (GERMAN)
L AUDIO (GERMAN)
C83 47 16V
C86 47 16V
R305 1k :CHIP
R303 1k :CHIP
R306 100 :CHIP
C87 47 16V
AUDIO(MONO)
VIDEO
10 AFT
9 BG/DK
8 TV ID
7 FM2
6 GND
5 FM1
4 SIF
3 AM MONO
2 5V
1 9V
CN2 10P WHT
TO A BOARD IFB101
10 VIDEO
9 GND
8 H-PULSE
7 TU AGC
6 SDA
5 SCL
4 GND
3 IF IN
2 IF IN
1 GND
CN1 10P WHT
TO A BOARD IFB101
R302 1k :CHIP
R301 1k :CHIP
L71 68μH
IF
R73 1k :CHIP
R74 18k :CHIP
R75 18k :CHIP
R76 100 :CHIP
R77 100 1/8W :CHIP
C71 47 16V
C72 0.01 B:CHIP
IC3 PCF8574 SYSTEM CONTROL
R71 18k :CHIP
R72 18k :CHIP
5V
9V

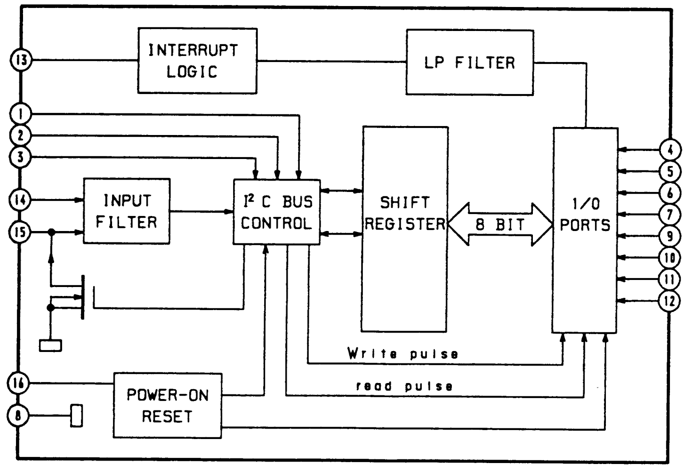
- **IF BOARD IC2 TDA9820 (KV-S2911D/S2913E)**


7-STAGE LIMITER-AMPLIFIER1
VCO1
CONTROL UNIT
7-STAGE LIMITER-AMPLIFIER2
VCO2
SUPPLY
MUTE

- **IF BOARD IC3 BA7046 (KV-S2911D/S2913E)**

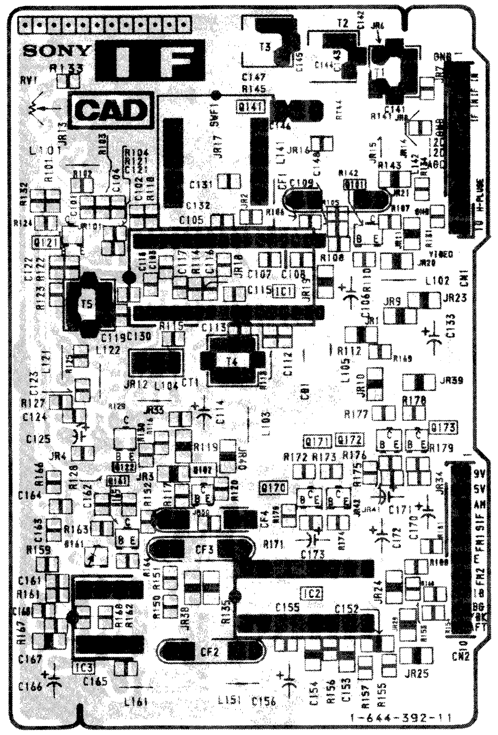

H.OSC
PHASE COMP
SYNC SEPA
V.SEPA

- **IF BOARD IC3 PCF8574 (KV-S2911B)**

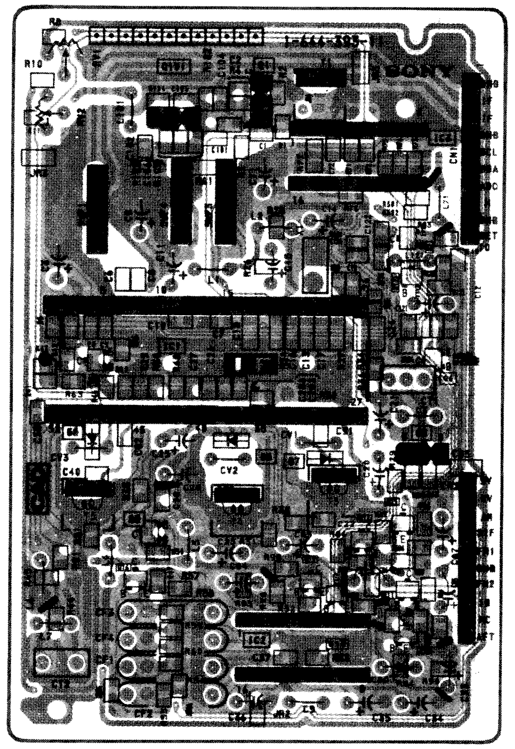

INTERRUPT LOGIC
LP FILTER
INPUT FILTER
I²C BUS CONTROL
SHIFT REGISTER
8 BIT
I/O PORTS
POWER-ON RESET
Write pulse
read pulse

IF [VIF, SIF]

– IF BOARD – (KV-S2911D/S2913E only)


SONY
IF
CAD
1-644-392-11

– IF BOARD – (KV-S2911B only)

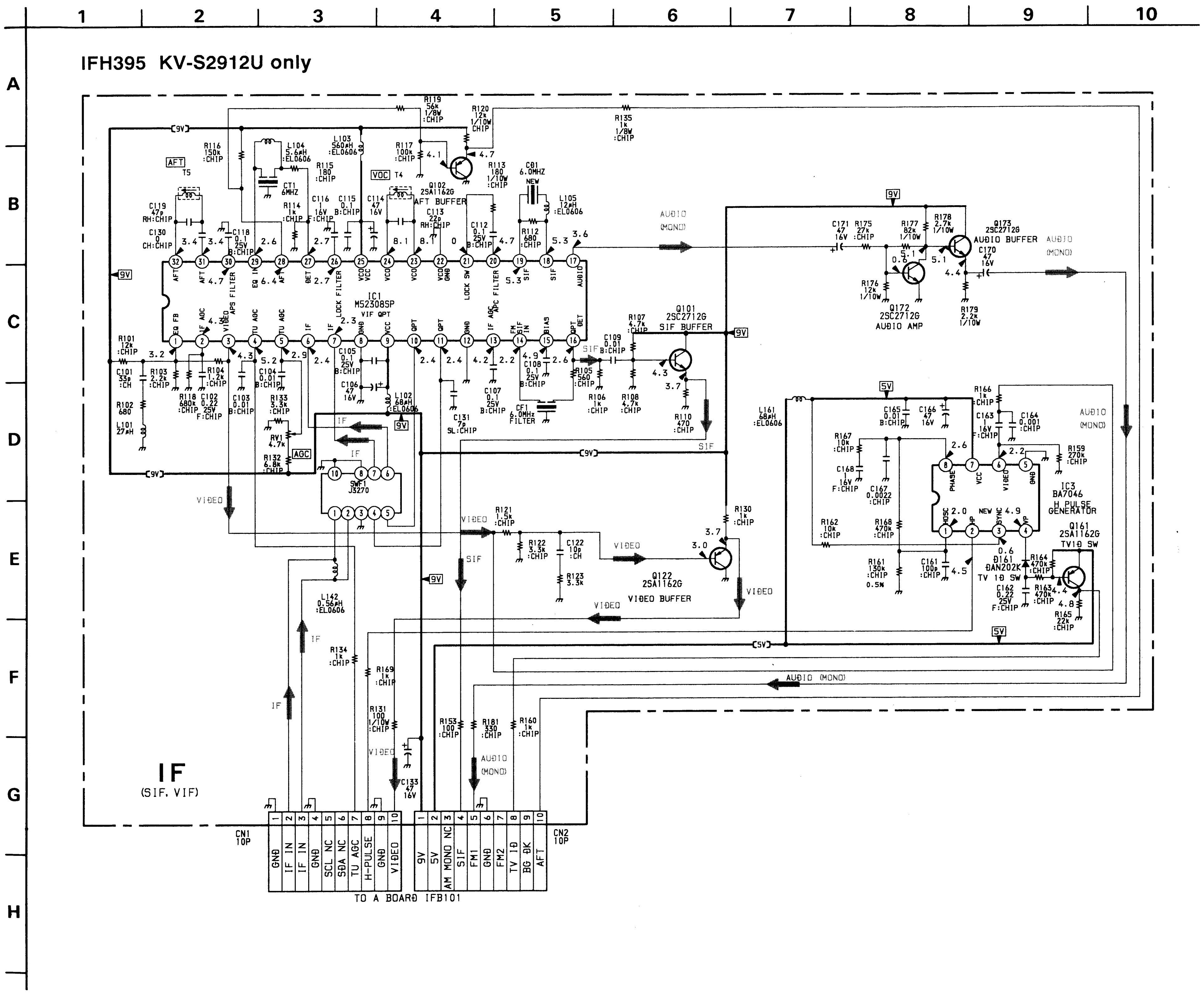


Note :

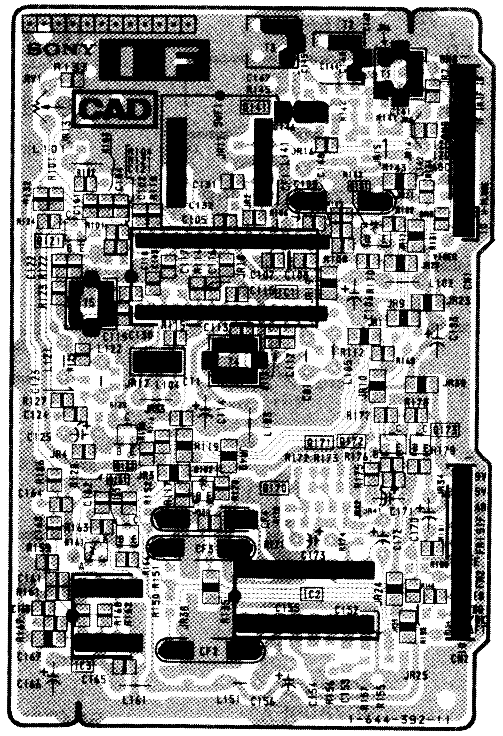
side which enables seeing.

- ░ : Pattern of the rear side.

IFH395 KV-S2912U only

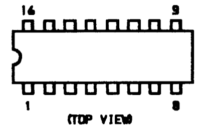

1
2
3
4
5
6
7
8
9
10
A
B
C
D
E
F
G
H
IC1
M52308SP
VIF QPT
IC3
BA7046
H PULSE GENERATOR
Q101
2SC2712G
SIF BUFFER
Q102
2SA1162G
AFT BUFFER
Q122
2SA1162G
VIDEO BUFFER
Q172
2SC2712G
AUDIO AMP
Q173
2SC2712G
AUDIO BUFFER
Q161
2SA1162G
TV1D SW
D161
DAN202K
TV 1D SW
SWF1
J3270
CF1
6.0MHz FILTER
CT1
6MHZ
AFT
T5
VOC
T4
AGC
9V
5V
AUDIO (MONO)
VIDEO
SIF
IF
IF
(SIF, VIF)
CN1
10P
GND
IF IN
IF IN
GND
SCL NC
SDA NC
TU AGC
H-PULSE
GND
VIDEO
CN2
10P
9V
5V
AM MONO NC
SIF
FM1
GND
FM2
TV 1D
BG DK
AFT
TO A BOARD IFB101

– IF BOARD – (KV-S2912U only)

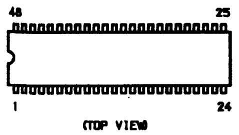

SONY
IF
CAD
1-644-392-11

5-5. SEMICONDUCTORS

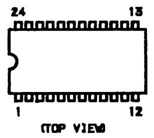
CXA1526P


14
8
1
7
(TOP VIEW)

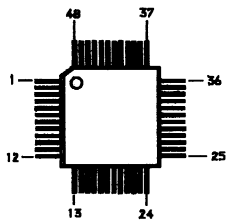
CXA1545AS
CXA1587S


48
25
1
24
(TOP VIEW)

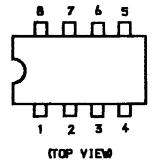
CXD1050A-15P
TDA8443A/C4
TDA9145


24
13
1
12
(TOP VIEW)

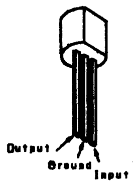
CXD2018Q


48
37
1
36
12
25
13
24

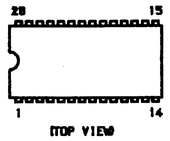
LM358D
LM358P
LM393P
SDA9086-3
TDA2822-M
TDA4605-3
TEA2114
X24C16P


8 7 6 5
1 2 3 4
(TOP VIEW)

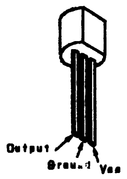
MC78L05ACPRP
MC78L08CPRP


Output
Ground
Input

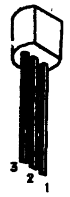
M27C512-20B1-AE21
SDA5231-2
TDA6612


28
15
1
14
(TOP VIEW)

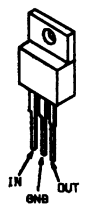
MC78L12ACPRP


Output
Ground
Vin

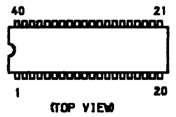
NJM78L09A



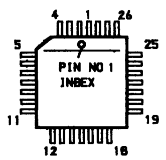
RC7805FA
RC7809FA



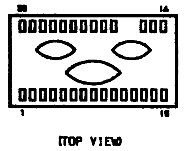
SAA7282P


40
21
1
20
(TOP VIEW)

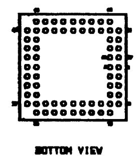
SBX1610-11


4
1
26
5
25
PIN NO 1
INDEX
11
19
12
18

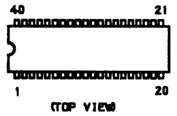
SBX1692-01



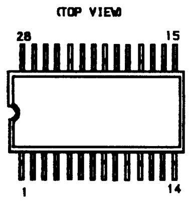
SDA30C162


BOTTOM VIEW

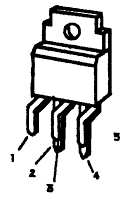
SDA5248C1


40
21
1
20
(TOP VIEW)

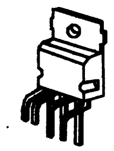
SDA9087XGEG
SDA9089XGEG


(TOP VIEW)
28
15
1
14

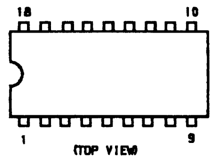
SI-3090CA



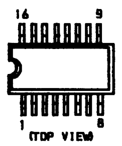
TDA2052
TDA8138A
TDA8179S



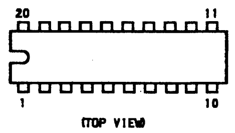
TDA2595/V9


18
10
1
9
(TOP VIEW)

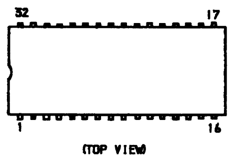
TDA4660T
TDA4660V2


16
9
1
8
(TOP VIEW)

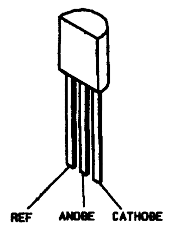
TDA8732
μPD424256C-80


20
11
1
10
(TOP VIEW)

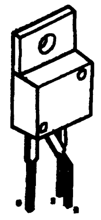
TDA9160


32
17
1
16
(TOP VIEW)

TL431CLP


REF
ANODE
CATHODE

BUZ91A-S



DTA124EK
DTA144EK
DTC114EK
DTC124EK
DTC144EK
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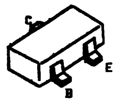
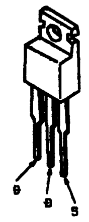
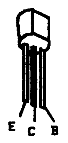
2SC1623-L5L6
2SC2413KT-Q



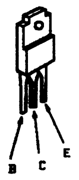
IRF540Y
IRY610
IRF614



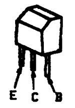
2SA733K
2SA1091-
2SC2551-



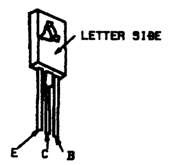
2SA1306A-Y
2SC3298B-Y



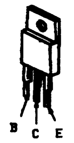
2SB734-34
2SD774-34



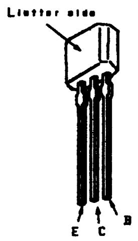
2SB772-Q
2SC2611
2SC2688-LK


LETTER SIDE
E
C
B

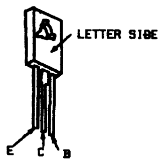
2SB860
2SD2012



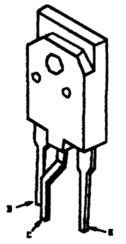
2SC2785-HFE


Letter side
E
C
B

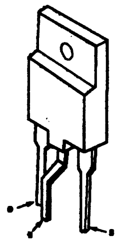
2SC3840K


LETTER SIDE
E
C
B

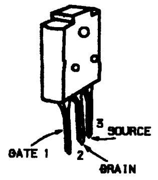
2SC4927-01



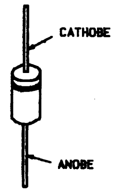
2SK1916-F87



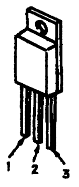
2SK1917


GATE 1
2
3
SOURCE
DRAIN

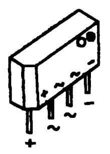
BB405B
BB809
EGP20G
ERA81-004
RGP02-20EL-6394
RU-3AM
RU-30ALFS1
R2K


CATHODE
ANODE

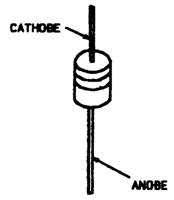
CTU-12S



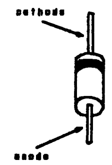
D4SB60L-F



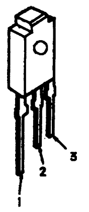
ERA38-06
MTZJ-13C
MTZJ-3.6A
MTZJ-9.1
MTZJ-30B
MTZJ-33C
MTZJ-39C
RD12ES-B2
RD5.6ES-B1
RD5.6ES-B2
RD6.2ES-B2
RD6.8ES-B2
RD7.5ES-B2
1SS119


CATHODE
ANODE

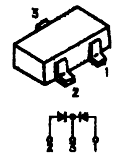
ERD29-08J


cathode
anode

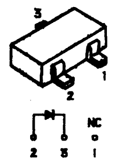
ESAC39M-06C



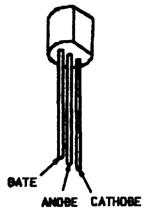
MA152WK



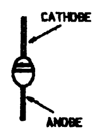
MA3039H-TX
RD5.6M-B2



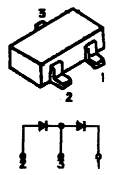
SHOR3D42


GATE
ANODE
CATHODE

U05G


CATHODE
ANODE

1SS226



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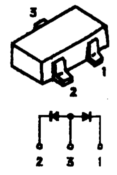
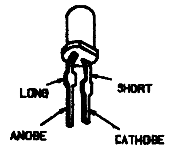


LD-201VR


LONG
SHORT
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SECTION 6
EXPLODED VIEWS

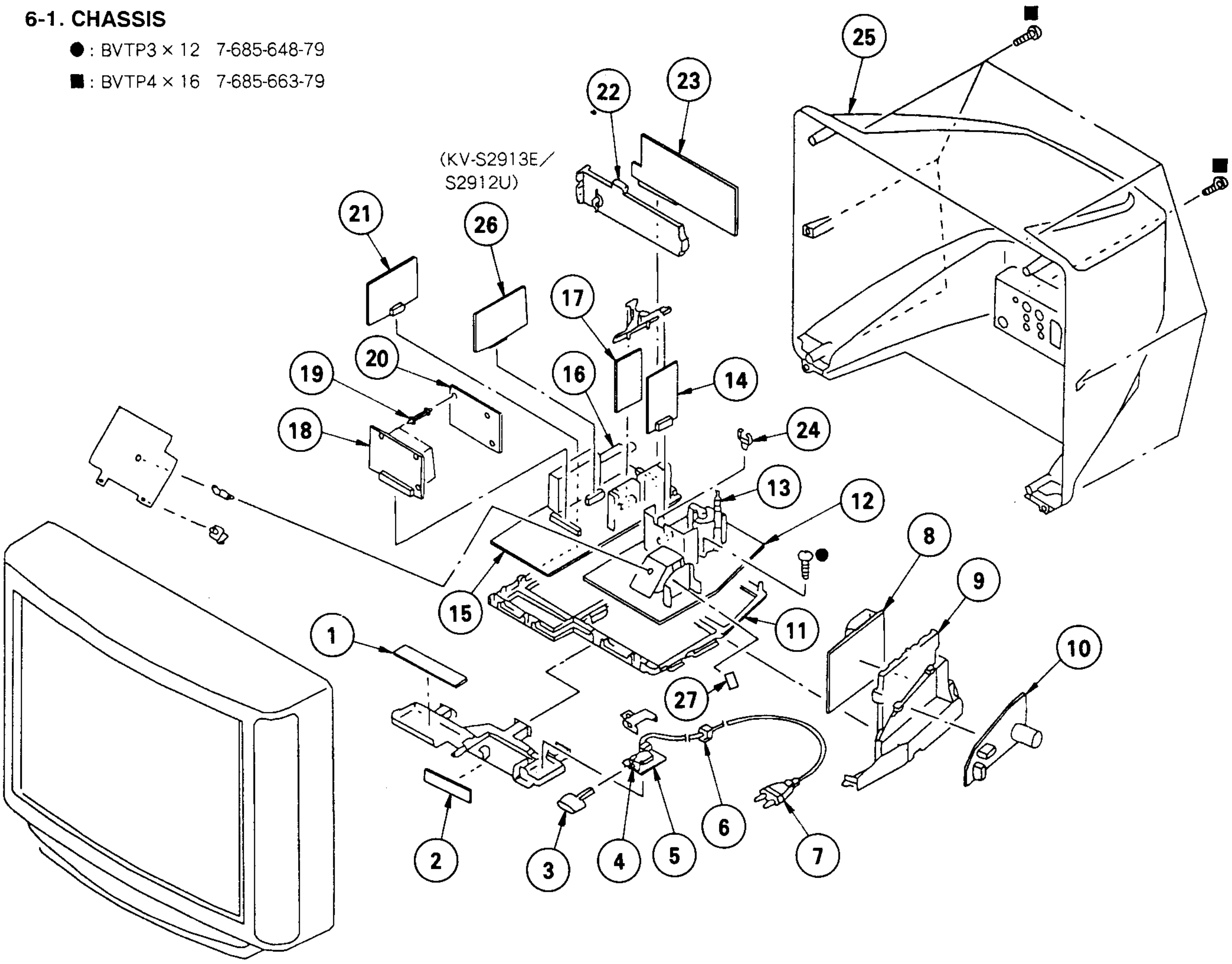
NOTE:
- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked " ★ " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifies par une trame et une marque ⚠ sont critiques pour la securite.
Ne les remplacer que par une piece portant le numero specifie.

6-1. CHASSIS

● : BVTP3 × 12 7-685-648-79
■ : BVTP4 × 16 7-685-663-79

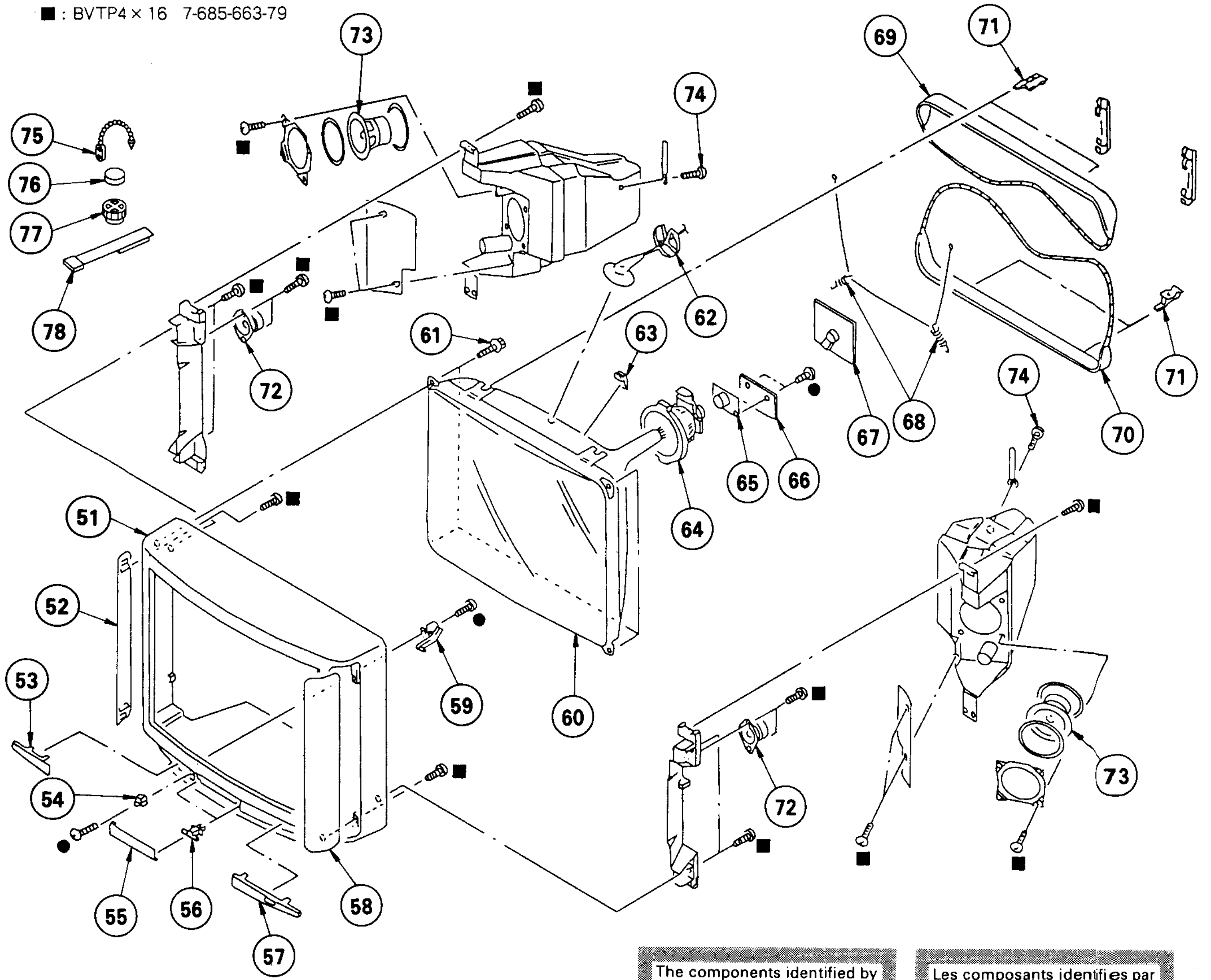


REF.NO.	PART NO.	DESCRIPTION	REMARK
1	*1-643-004-11	H1 BOARD	
2	*1-642-997-11	H2 BOARD	
3	4-202-124-01	BUTTON, POWER	
4	⚠1-571-433-12	SWITCH, PUSH (AC POWER)	
5	*A-1241-086-A	F1 BOARD, COMPLETE	
6	⚠4-389-201-03	HOLDER, AC CORD	
7	⚠1-590-501-11	CORD, POWER (WITH NOISE FILTER) (KV-S2911B,S2911D,S2913E)	
	⚠1-590-762-11	CORD, POWER (WITH PLUG) (KV-S2912U)	
8	*A-1341-570-A	D1 BOARD, COMPLETE	
9	*4-202-140-01	BRACKET, F	
10	*A-1241-079-A	F2 BOARD, COMPLETE	
11	*4-202-141-01	BRACKET, MAIN	
12	*A-1346-074-A	D BOARD, COMPLETE	27
13	⚠1-439-524-11	TRANSFORMER ASSY, FLYBACK (NX-3000A2)	
14	*A-1341-571-A	D2 BOARD, COMPLETE	
15	*A-1297-007-A	A BOARD, COMPLETE (KV-S2911B)	
	*A-1297-008-A	A BOARD, COMPLETE (KV-S2911D,S2913E)	
	*A-1297-012-A	A BOARD, COMPLETE (KV-S2912U)	
16	⚠1-693-184-11	TUNER (U944C) (KV-S2912U)	
	⚠1-693-185-11	TUNER (UV916H) (KV-S2911B,S2911D,S2913E)	
17	*A-1131-037-A	B1 BOARD, COMPLETE	
18	*A-1635-001-A	M BOARD, COMPLETE	
19	*4-385-948-01	HOLDER, PCB	
20	*A-1347-069-A	V BOARD, COMPLETE	
21	*A-1622-005-A	P BOARD, COMPLETE	
22	*4-202-135-01	BRACKET, J	
23	*A-1388-145-A	J BOARD, COMPLETE	
24	*3-646-071-00	HOLDER, WIRE	
25	4-202-146-01	COVER, REAR	
26	*A-1292-247-A	A1 BOARD, COMPLETE (KV-S2912U)	
	*A-1292-248-A	A1 BOARD, COMPLETE (KV-S2913E)	
27	*1-646-681-11	D3 BOARD	

6-2. PICTURE TUBE

● : BVTP3 × 12 7-685-648-79

■ : BVTP4 × 16 7-685-663-79



The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifies par une trame et une marque ⚠ sont critiques pour la securite.
Ne les remplacer quepar une piece portant le numerospecifie.

REF.NO.	PART NO.	DESCRIPTION	REMARK
51	X-4200-111-1	CABINET ASSY (WITH BEZEL ASSY)	
52	X-4200-109-1	GRILLE (L) ASSY, SPEAKER	
53	4-202-127-01	PLATE, ORNAMENTAL(KV-S2911B, S2911D)	
	4-202-127-11	PLATE, ORNAMENTAL(KV-S2912U, S2913E)	
54	4-036-881-01	LOCK ASSY, DOOR	
55	4-202-125-01	DOOR	
56	3-703-035-11	SHAFT, LID	
57	4-202-123-01	WINDOW, ORNAMENTAL	
58	X-4200-110-1	GRILLE (R) ASSY, SPEAKER	
59	X-4030-459-1	DAMPER ASSY	
60	⚠ 8-733-837-05	PICTURE TUBE (M68KUZ10X)	
61	4-373-263-11	SCREW (M), PT	
62	*3-704-372-01	HOLDER, HV CABLE	
63	3-704-495-01	SPACER, DY	
64	⚠ 1-451-394-11	DEFLECTION YOKE (Y29EXA)	

REF.NO.	PART NO.	DESCRIPTION	REMARK
65	⚠ 1-452-616-12	NECK ASSY, PICTURE TUBE (NA32)	
66	*A-1342-189-A	VM BOARD, COMPLETE	
67	*A-1331-223-A	C BOARD, COMPLETE	
68	4-369-318-00	SPRING, TENSION	
69	⚠ 1-402-715-11	COIL, DEGAUSSING	
70	⚠ 1-402-716-11	COIL, DEGAUSSING	
71	4-202-112-01	CLIP	
72	1-504-121-21	SPEAKER (SQUAWKER) (5CM)	
73	1-504-145-11	SPEAKER (12CM)	
74	4-384-096-01	SCREW (4X16), TAPPING, +P	
75	4-308-870-00	CLIP, LEAD WIRE	
76	1-452-032-00	MAGNET, DISK; 10MM ϕ	
77	1-452-094-00	MAGNET, ROTATABLE DISK; 15MM ϕ	
78	X-4306-312-0	PERMALLOY ASSY, CONVERGENCE	

SECTION 7
ELECTRICAL PARTS LIST

B1

NOTE:

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifies par une trame et une marque ⚠ sont critiques pour la securite.
Ne les remplacer que par une piece portant le numero specifie.

- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

RESISTORS
- All resistors are in ohms
- F : nonflammable

When indicating parts by reference number, please include the board name.

CAPACITORS
- MF : μF, PF : μμF

COILS
- MMH : mH, UH : μH

REF.NO.	PART NO.	DESCRIPTION			REMARK
	*A-1131-037-A	B1 BOARD, COMPLETE ******************			
		<CAPACITOR>			
C1301	1-124-478-11	ELECT	100MF	20%	25V
C1302	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C1303	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C1304	1-124-478-11	ELECT	100MF	20%	25V
C1305	1-124-478-11	ELECT	100MF	20%	25V
C1306	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C1307	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C1308	1-124-478-11	ELECT	100MF	20%	25V
C1309	1-124-910-11	ELECT	47MF	20%	50V
C1310	1-124-917-11	ELECT	33MF	20%	50V
C1311	1-163-101-00	CERAMIC CHIP	22PF	5%	50V
C1312	1-124-907-11	ELECT	10MF	20%	50V
C1314	1-124-907-11	ELECT	10MF	20%	50V
C1318	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C1319	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C1320	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C1321	1-163-101-00	CERAMIC CHIP	22PF	5%	50V
C1322	1-163-101-00	CERAMIC CHIP	22PF	5%	50V
C1323	1-163-109-00	CERAMIC CHIP	47PF	5%	50V
C1324	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C1325	1-163-169-00	CERAMIC CHIP	33PF	5%	50V
C1327	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C1333	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
		<CONNECTOR>			
CN0302	*1-573-299-11	CONNECTOR, BOARD TO BOARD 10P			
		<DIODE>			
D1302	8-719-400-18	DIODE MA152WK			
		<FILTER>			
FL1301	1-236-620-11	FILTER, LOW PASS			
FL1302	1-236-620-11	FILTER, LOW PASS			
FL1303	1-236-620-11	FILTER, LOW PASS			
FL1304	1-236-164-11	ENCAPSULATED COMPONENT			
		<IC>			
IC1301	8-741-692-01	IC SBX1692-01			
		<COIL>			
L1301	1-408-405-00	INDUCTOR	4.7UH		

REF.NO.	PART NO.	DESCRIPTION			REMARK
L1302	1-408-405-00	INDUCTOR	4.7UH		
L1304	1-408-406-00	INDUCTOR	5.6UH		
L1305	1-408-418-00	INDUCTOR	56UH		
		<TRANSISTOR>			
Q1301	8-729-120-28	TRANSISTOR 2SC1623-L5L6			
Q1302	8-729-120-28	TRANSISTOR 2SC1623-L5L6			
Q1305	8-729-216-22	TRANSISTOR 2SA1162-G			
Q1306	8-729-120-28	TRANSISTOR 2SC1623-L5L6			
Q1307	8-729-216-22	TRANSISTOR 2SA1162-G			
Q1308	8-729-216-22	TRANSISTOR 2SA1162-G			
Q1309	8-729-216-22	TRANSISTOR 2SA1162-G			
Q1310	8-729-216-22	TRANSISTOR 2SA1162-G			
Q1311	8-729-216-22	TRANSISTOR 2SA1162-G			
Q1316	8-729-120-28	TRANSISTOR 2SC1623-L5L6			
		<RESISTOR>			
JR1	1-216-295-00	METAL GLAZE	0	5%	1/10W
JR2	1-216-295-00	METAL GLAZE	0	5%	1/10W
JR3	1-216-295-00	METAL GLAZE	0	5%	1/10W
JR4	1-216-296-00	METAL GLAZE	0	5%	1/8W
JR5	1-216-296-00	METAL GLAZE	0	5%	1/8W
JR6	1-216-295-00	METAL GLAZE	0	5%	1/10W
JR7	1-216-295-00	METAL GLAZE	0	5%	1/10W
R1301	1-216-071-00	METAL GLAZE	8.2K	5%	1/10W
R1302	1-216-083-00	METAL GLAZE	27K	5%	1/10W
R1303	1-216-051-00	METAL GLAZE	1.2K	5%	1/10W
R1304	1-216-043-00	METAL GLAZE	560	5%	1/10W
R1305	1-216-067-00	METAL GLAZE	5.6K	5%	1/10W
R1306	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R1307	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R1308	1-216-025-00	METAL GLAZE	100	5%	1/10W
R1310	1-216-067-00	METAL GLAZE	5.6K	5%	1/10W
R1311	1-216-051-00	METAL GLAZE	1.2K	5%	1/10W
R1312	1-216-035-00	METAL GLAZE	270	5%	1/10W
R1313	1-216-059-00	METAL GLAZE	2.7K	5%	1/10W
R1314	1-216-216-00	METAL GLAZE	5.6K	5%	1/8W
R1315	1-216-043-00	METAL GLAZE	560	5%	1/10W
R1316	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R1319	1-216-055-00	METAL GLAZE	1.8K	5%	1/10W
R1320	1-216-043-00	METAL GLAZE	560	5%	1/10W
R1321	1-216-204-00	METAL GLAZE	1.8K	5%	1/8W
R1322	1-216-067-00	METAL GLAZE	5.6K	5%	1/10W
R1324	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R1326	1-216-202-00	METAL GLAZE	1.5K	5%	1/8W
R1327	1-216-059-00	METAL GLAZE	2.7K	5%	1/10W
R1328	1-216-043-00	METAL GLAZE	560	5%	1/10W
R1329	1-216-043-00	METAL GLAZE	560	5%	1/10W
R1330	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R1331	1-216-069-00	METAL GLAZE	6.8K	5%	1/10W

Les composants identifies par une trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

B1 F2 F1 A1

REF.NO.	PART NO.	DESCRIPTION				REMARK
R1332	1-216-069-00	METAL GLAZE	6.8K	5%	1/10W	
R1333	1-216-067-00	METAL GLAZE	5.6K	5%	1/10W	
R1334	1-216-055-00	METAL GLAZE	1.8K	5%	1/10W	
R1341	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
R1342	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R1343	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
R1344	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
**********	**********	**********************				
	*A-1241-079-A	F2 BOARD, COMPLETE ******************				
	*4-341-751-01	EYELET (EY650,EY652,EY665~EY675,EY677)				
	*4-341-752-01	EYELET (EY601~EY617)				
		<CAPACITOR>				
C661 ⚠	1-136-519-11	FILM	0.47MF	20%	300V	
C662 ⚠	1-136-518-11	FILM	0.33MF	20%	300V	
C664 ⚠	1-164-246-51	CERAMIC	0.0022MF	20%	400V	
C666	1-124-120-11	ELECT	220MF	20%	25V	
C667	1-126-233-11	ELECT	22MF	20%	50V	
C672 ⚠	1-161-964-61	CERAMIC	0.0047MF		250V	
C673 ⚠	1-161-964-61	CERAMIC	0.0047MF		250V	
C674 ⚠	1-125-555-11	ELECT	330MF	20%	400V	
		<CONNECTOR>				
CN0005	*1-508-765-00	PIN, CONNECTOR (5MM PITCH) 3P				
CN0006	*1-508-765-00	PIN, CONNECTOR (5MM PITCH) 3P				
CN0007	*1-508-786-00	PIN, CONNECTOR (5MM PITCH) 2P				
CN0924	*1-568-878-51	PIN, CONNECTOR 3P				
CN0925	*1-695-294-11	PIN, CONNECTOR (PC BOARD) 6P				
CN0929	*1-508-766-00	PIN, CONNECTOR (5MM PITCH) 4P				
CN0931	*1-691-291-11	PIN, CONNECTOR (PC BOARD) 5P				
		<DIODE>				
D661	8-719-911-19	DIODE 1SS119				
D662	8-719-400-18	DIODE MA152WK				
D663 ⚠	8-719-510-63	DIODE D4SB60L-F				
D664	8-719-921-69	DIODE MTZJ-9.1				
		<TRANSFORMER>				
LF661⚠	1-424-436-11	TRANSFORMER, LINE FILTER				
LF662⚠	1-424-436-11	TRANSFORMER, LINE FILTER				
LF663⚠	1-421-862-11	LFT				
		<TRANSISTOR>				
Q661	8-729-120-28	TRANSISTOR 2SC1623-L5L6				
		<RESISTOR>				
R663 ⚠	1-244-945-91	CARBON	1M	5%	1/2W	
R664 ⚠	1-205-998-11	WIREWOUND	1	5%	10W	F
R665 ⚠	1-218-265-91	METAL GLAZE	8.2M	5%	1W	
R666	1-249-405-11	CARBON	100	5%	1/4W	F
R667	1-249-430-11	CARBON	12K	5%	1/4W	
R668	1-249-434-11	CARBON	27K	5%	1/4W	
R669 ⚠	1-202-968-11	WIREWOUND	1.2	5%	10W	F
R670 ⚠	1-205-998-11	WIREWOUND	1	5%	10W	F
R671	1-249-415-11	CARBON	680	5%	1/4W	F

REF.NO.	PART NO.	DESCRIPTION				REMARK
		<RELAY>				
RY661⚠	1-515-720-31	RELAY				
		<THERMISTOR>				
THP661⚠	1-809-827-11	THERMISTOR, POSITIVE				
**********	**********	**********************				
	*A-1241-086-A	F1 BOARD, COMPLETE ******************				
	1-533-230-11	HOLDER, FUSE				
	*4-341-751-01	EYELET (EY691,EY692)				
	*4-341-752-01	EYELET				
		<CONNECTOR>				
CN0003	*1-580-844-11	PIN, CONNECTOR (POWER)				
CN0831	*1-695-292-11	PIN, CONNECTOR (POWER)				
		<FUSE>				
F651 ⚠	1-576-232-21	FUSE (H.B.C.) 5A/250V				
		<SWITCH>				
S651 ⚠	1-571-433-12	SWITCH, PUSH (AC POWER)				
**********	**********	**********************				
	*A-1292-247-A	A1 BOARD, COMPLETE (KV-S2912U) ******************				
	*A-1292-248-A	A1 BOARD, COMPLETE (KV-S2913E) ******************				
		<FILTER>				
BP1101	1-236-238-12	FILTER, BAND PASS (KV-S2912U)				
	1-239-047-11	FILTER, BAND PASS (KV-S2913E)				
CF1101	1-409-333-00	TRAP, CERAMIC (6.0MHZ) (KV-S2912U)				
CF1102	1-404-134-00	TRAP, CERAMIC (5.5MHZ) (KV-S2913E)				
		<CAPACITOR>				
C1101	1-126-101-11	ELECT	100MF	20%	16V	
C1102	1-126-101-11	ELECT	100MF	20%	16V	
C1103	1-163-038-00	CERAMIC CHIP	0.1MF		25V	
C1104	1-163-077-00	CERAMIC CHIP	0.1MF	10%	25V	
C1105	1-163-081-00	CERAMIC CHIP	0.22MF		25V	
C1106	1-163-437-91	CERAMIC CHIP	180PF	5%	50V	
C1107	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V	
C1108	1-163-059-00	CERAMIC CHIP	0.01MF		50V	
C1109	1-163-033-00	CERAMIC CHIP	0.022MF		50V	
C1110	1-164-336-11	CERAMIC CHIP	0.33MF		25V	
C1111	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V	
C1112	1-164-161-11	CERAMIC CHIP	0.0022MF	10%	50V	
C1113	1-124-477-11	ELECT	47MF	20%	16V	
C1114	1-163-038-00	CERAMIC CHIP	0.1MF		25V	
C1115	1-124-477-11	ELECT	47MF	20%	16V	
C1116	1-137-031-11	FILM	0.22MF	10%	100V	
C1117	1-163-081-00	CERAMIC CHIP	0.22MF		25V	
C1118	1-163-113-00	CERAMIC CHIP	68PF	5%	50V	
C1119	1-163-193-00	CERAMIC CHIP	330PF	5%	50V	
C1120	1-163-193-00	CERAMIC CHIP	330PF	5%	50V	

REF.NO.	PART NO.	DESCRIPTION			REMARK
C1121	1-163-113-00	CERAMIC CHIP	68PF	5%	50V
C1122	1-163-081-00	CERAMIC CHIP	0.22MF		25V
C1123	1-137-031-11	FILM	0.22MF	10%	100V
C1124	1-124-477-11	ELECT	47MF	20%	16V
C1125	1-124-477-11	ELECT	47MF	20%	16V
C1126	1-163-077-00	CERAMIC CHIP	0.1MF	10%	25V
C1127	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C1128	1-124-477-11	ELECT	47MF	20%	16V
C1129	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C1130	1-163-205-00	CERAMIC CHIP	0.001MF	10%	50V
C1131	1-163-059-00	CERAMIC CHIP	0.01MF		50V
C1132	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C1133	1-124-907-11	ELECT	10MF	20%	50V
C1134	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C1135	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C1136	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C1137	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C1138	1-163-105-00	CERAMIC CHIP	33PF	5%	50V
C1139	1-163-105-00	CERAMIC CHIP	33PF	5%	50V
C1140	1-163-181-00	CERAMIC CHIP	100PF	5%	50V
C1141	1-163-205-00	CERAMIC CHIP	0.001MF	5%	50V
C1142	1-163-019-00	CERAMIC CHIP	0.0068MF		50V
C1143	1-163-003-11	CERAMIC CHIP	330PF	10%	50V
C1144	1-163-121-00	CERAMIC CHIP	150PF	5%	50V
C1145	1-163-121-00	CERAMIC CHIP	150PF	5%	50V
C1146	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C1147	1-124-477-11	ELECT	47MF	20%	16V
C1148	1-164-161-11	CERAMIC CHIP	0.0022MF	10%	50V
C1149	1-124-477-11	ELECT	47MF	20%	16V
C1150	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C1151	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C1152	1-124-477-11	ELECT	47MF	20%	16V
C1153	1-163-087-00	CERAMIC CHIP	4PF	0.25PF	50V
C1154	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C1155	1-124-477-11	ELECT	47MF	20%	16V
C1156	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C1157	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C1158	1-163-038-00	CERAMIC CHIP	0.1MF		25V

<CONNECTOR>

CN0201	1-695-300-11	CONNECTOR, BOARD TO BOARD 20P

<DIODE>

D1101	8-719-104-34	DIODE 1S2836
D1102	8-719-027-70	DIODE 1SV217-TPH3
D1103	8-719-820-71	DIODE 1SV214

<FERRITE BEAD>

FB1101	1-410-396-41	FERRITE BEAD INDUCTOR
FB1102	1-410-396-41	FERRITE BEAD INDUCTOR
FB1103	1-410-396-41	FERRITE BEAD INDUCTOR
FB1104	1-410-396-41	FERRITE BEAD INDUCTOR
FB1105	1-410-396-41	FERRITE BEAD INDUCTOR
FB1107	1-410-396-41	FERRITE BEAD INDUCTOR

<IC>

IC1101	8-759-511-88	IC TDA8732
IC1102	8-759-073-17	IC SAA7282P

<COIL>

REF.NO.	PART NO.	DESCRIPTION		REMARK
L1101	1-408-405-00	INDUCTOR	4.7UH	
L1102	1-408-405-00	INDUCTOR	4.7UH	
L1103	1-410-119-11	INDUCTOR	1MMH	
L1104	1-410-119-11	INDUCTOR	1MMH	
L1105	1-408-411-00	INDUCTOR	15UH	(KV-S2912U)

<TRANSISTOR>

Q1101	8-729-120-28	TRANSISTOR	2SC1623-L5L6
Q1102	8-729-120-28	TRANSISTOR	2SC1623-L5L6
Q1103	8-729-120-28	TRANSISTOR	2SC1623-L5L6
Q1104	8-729-120-28	TRANSISTOR	2SC1623-L5L6
Q1105	8-729-120-28	TRANSISTOR	2SC1623-L5L6
Q1106	8-729-120-28	TRANSISTOR	2SC1623-L5L6
Q1107	8-729-120-28	TRANSISTOR	2SC1623-L5L6
Q1108	8-729-120-28	TRANSISTOR	2SC1623-L5L6

<RESISTOR>

						REMARK
JR1101	1-216-296-00	METAL GLAZE	0	5%	1/8W	(KV-S2913E)
JR1102	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR1103	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR1104	1-216-295-00	METAL GLAZE	0	5%	1/10W	
R1101	1-216-188-00	METAL GLAZE	390	5%	1/8W	
R1102	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R1103	1-216-198-00	METAL GLAZE	1K	5%	1/8W	
R1104	1-216-041-00	METAL GLAZE	470	5%	1/10W	
R1105	1-216-005-00	METAL GLAZE	15	5%	1/10W	
R1106	1-216-036-00	METAL GLAZE	300	5%	1/10W	
R1107	1-216-042-00	METAL GLAZE	510	5%	1/10W	
R1108	1-216-063-00	METAL GLAZE	3.9K	5%	1/10W	
R1109	1-216-202-00	METAL GLAZE	1.5K	5%	1/8W	
R1110	1-216-196-00	METAL GLAZE	820	5%	1/8W	
R1111	1-216-041-00	METAL GLAZE	470	5%	1/10W	
R1112	1-216-051-00	METAL GLAZE	1.2K	5%	1/10W	
R1113	1-216-001-00	METAL GLAZE	10	5%	1/10W	
R1114	1-216-105-00	METAL GLAZE	220K	5%	1/10W	
R1115	1-216-121-00	METAL GLAZE	1M	5%	1/10W	
R1116	1-216-198-00	METAL GLAZE	1K	5%	1/8W	
R1117	1-216-097-00	METAL GLAZE	100K	5%	1/10W	
R1118	1-216-097-00	METAL GLAZE	100K	5%	1/10W	
R1119	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R1120	1-216-232-00	METAL GLAZE	27K	5%	1/8W	
R1121	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R1122	1-216-158-00	METAL GLAZE	22	5%	1/8W	
R1123	1-216-158-00	METAL GLAZE	22	5%	1/8W	
R1124	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
R1125	1-216-097-00	METAL GLAZE	100K	5%	1/10W	
R1126	1-216-218-00	METAL GLAZE	6.8K	5%	1/8W	
R1127	1-216-097-00	METAL GLAZE	100K	5%	1/10W	
R1128	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
R1129	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
R1130	1-216-246-00	METAL GLAZE	100K	5%	1/8W	
R1131	1-216-218-00	METAL GLAZE	6.8K	5%	1/8W	
R1132	1-216-097-00	METAL GLAZE	100K	5%	1/10W	
R1133	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
R1134	1-216-212-00	METAL GLAZE	3.9K	5%	1/8W	
R1135	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R1136	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R1137	1-216-095-00	METAL GLAZE	82K	5%	1/10W	
R1138	1-216-097-00	METAL GLAZE	100K	5%	1/10W	
R1139	1-216-005-00	METAL GLAZE	15	5%	1/10W	

REF.NO.	PART NO.	DESCRIPTION				REMARK
R1140	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W	
R1141	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W	
R1142	1-216-033-00	METAL GLAZE	220	5%	1/10W	
R1143	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R1144	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R1145	1-216-001-00	METAL GLAZE	10	5%	1/10W	
R1146	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R1147	1-216-045-00	METAL GLAZE	680	5%	1/10W	
R1148	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R1149	1-216-001-00	METAL GLAZE	10	5%	1/10W	
R1150	1-216-045-00	METAL GLAZE	680	5%	1/10W	
R1151	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R1152	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R1153	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R1154	1-216-041-00	METAL GLAZE	470	5%	1/10W	

<CRYSTAL>

REF.NO.	PART NO.	DESCRIPTION
X1101	1-579-689-21	VIBRATOR, CRYSTAL
X1102	1-579-282-21	VIBRATOR, CRYSTAL (KV-S2913E)
	1-579-282-21	VIBRATOR, CRYSTAL (KV-S2913E)

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REF.NO.	PART NO.	DESCRIPTION
	*A-1297-007-A	A BOARD, COMPLETE (KV-S2911B)
		*****************
	*A-1297-008-A	A BOARD, COMPLETE (KV-S2911D,S2913E)
		*****************
	*A-1297-012-A	A BOARD, COMPLETE (KV-S2912U)
		*****************
	4-200-001-01	HOLDER, IC
	4-201-023-01	SPACER, INSULATING
	4-812-134-00	RIVET NYLON, 3.5

<CAPACITOR>

REF.NO.	PART NO.	DESCRIPTION			REMARK
C071	1-124-126-00	ELECT	47MF	20%	10V
C072	1-124-120-11	ELECT	220MF	20%	16V
C074	1-163-001-11	CERAMIC CHIP	220PF	10%	50V
C102	1-126-103-11	ELECT	470MF	20%	16V
C103	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C104	1-124-910-11	ELECT	47MF	20%	50V
C105	1-126-233-11	ELECT	22MF	20%	50V
C106	1-124-927-11	ELECT	4.7MF	20%	50V
C110	1-124-478-11	ELECT	100MF	20%	25V
C111	1-102-074-00	CERAMIC	0.001MF	10%	50V
					(KV-S2911B)
C120	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C201	1-137-129-91	FILM	0.033MF	5%	63V
C202	1-137-129-91	FILM	0.033MF	5%	63V
C203	1-164-005-11	CERAMIC CHIP	0.47MF		25V
C204	1-164-005-11	CERAMIC CHIP	0.47MF		25V
C205	1-124-907-11	ELECT	10MF	20%	50V
C206	1-164-161-11	CERAMIC CHIP	0.0022MF	10%	50V
C207	1-137-613-11	FILM	0.0018MF	2%	100V
C208	1-164-005-11	CERAMIC CHIP	0.47MF		25V
C209	1-164-005-11	CERAMIC CHIP	0.47MF		25V
C210	1-164-005-11	CERAMIC CHIP	0.47MF		25V
C211	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C213	1-163-023-00	CERAMIC CHIP	0.015MF	10%	50V
C214	1-163-023-00	CERAMIC CHIP	0.015MF	10%	50V
C215	1-163-809-11	CERAMIC CHIP	0.047MF	10%	25V
C216	1-163-809-11	CERAMIC CHIP	0.047MF	10%	25V
C217	1-124-925-11	ELECT	2.2MF	20%	50V
C218	1-124-925-11	ELECT	2.2MF	20%	50V
C219	1-163-011-11	CERAMIC CHIP	0.0015MF	10%	50V

REF.NO.	PART NO.	DESCRIPTION			REMARK
C220	1-163-011-11	CERAMIC CHIP	0.0015MF	10%	50V
C221	1-124-925-11	ELECT	2.2MF	20%	50V
C222	1-124-925-11	ELECT	2.2MF	20%	50V
C223	1-137-028-11	FILM	1MF	10%	63V
C224	1-137-028-11	FILM	1MF	10%	63V
C225	1-164-182-11	CERAMIC CHIP	0.0033MF	10%	50V
C226	1-163-007-11	CERAMIC CHIP	680PF	10%	50V
C227	1-124-907-11	ELECT	10MF	20%	50V
C228	1-124-907-11	ELECT	10MF	20%	50V
C229	1-124-478-11	ELECT	100MF	20%	25V
C230	1-124-478-11	ELECT	100MF	20%	25V
C231	1-164-346-11	CERAMIC CHIP	1MF		16V
C232	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C233	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C234	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V
C235	1-137-134-91	FILM	0.22MF	5%	63V
C236	1-124-618-11	ELECT	2200MF	20%	35V
C237	1-124-618-11	ELECT	2200MF	20%	35V
C238	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V
C239	1-137-134-91	FILM	0.22MF	5%	63V
C240	1-126-233-11	ELECT	22MF	20%	50V
C241	1-126-233-11	ELECT	22MF	20%	50V
C242	1-124-903-11	ELECT	1MF	20%	50V
C243	1-163-119-00	CERAMIC CHIP	120PF	5%	50V
C244	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C251	1-126-320-11	ELECT	10MF	20%	16V
C301	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C302	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C303	1-164-346-11	CERAMIC CHIP	1MF		16V
C304	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C305	1-163-097-00	CERAMIC CHIP	15PF	5%	50V
C306	1-163-097-00	CERAMIC CHIP	15PF	5%	50V
C307	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V
C308	1-163-037-11	CERAMIC CHIP	0.022MF	10%	25V
C309	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C310	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C311	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C312	1-124-910-11	ELECT	47MF	20%	50V
C313	1-163-077-00	CERAMIC CHIP	0.1MF		50V
C314	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C315	1-124-910-11	ELECT	47MF	20%	50V
C316	1-163-077-00	CERAMIC CHIP	0.1MF		50V
C317	1-163-103-00	CERAMIC CHIP	27PF	5%	50V
C318	1-163-103-00	CERAMIC CHIP	27PF	5%	50V
C319	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C320	1-124-910-11	ELECT	47MF	20%	50V
C321	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C322	1-126-233-11	ELECT	22MF	20%	50V
C323	1-163-135-00	CERAMIC CHIP	560PF	5%	50V
C324	1-124-910-11	ELECT	47MF	20%	50V
C341	1-163-077-00	CERAMIC CHIP	0.1MF	10%	25V
C342	1-163-077-00	CERAMIC CHIP	0.1MF	10%	25V
C343	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C344	1-162-638-11	CERAMIC CHIP	1MF		16V
C345	1-164-346-11	CERAMIC CHIP	1MF		16V
C347	1-162-638-11	CERAMIC CHIP	1MF		16V
C348	1-164-346-11	CERAMIC CHIP	1MF		16V
C349	1-164-346-11	CERAMIC CHIP	1MF		16V
C350	1-124-907-11	ELECT	10MF	20%	50V
C351	1-126-233-11	ELECT	22MF	20%	50V
C353	1-164-346-11	CERAMIC CHIP	1MF		16V
C354	1-164-346-11	CERAMIC CHIP	1MF		16V
C355	1-162-638-11	CERAMIC CHIP	1MF		16V

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REF.NO.	PART NO.	DESCRIPTION			REMARK
C356	1-164-489-11	CERAMIC CHIP	0.22MF	10%	16V
C357	1-164-299-11	CERAMIC CHIP	0.22MF	10%	25V
C358	1-164-299-11	CERAMIC CHIP	0.22MF	10%	25V
C359	1-124-907-11	ELECT	10MF	20%	50V
C361	1-163-101-00	CERAMIC CHIP	22PF	5%	50V
C362	1-137-134-91	FILM	0.22MF	5%	63V
C363	1-124-907-11	ELECT	10MF	20%	50V
C365	1-124-120-11	ELECT	220MF	20%	16V
C366	1-124-903-11	ELECT	1MF	20%	50V
C401	1-164-005-11	CERAMIC CHIP	0.47MF		16V
C402	1-124-917-11	ELECT	33MF	20%	50V
C403	1-164-005-11	CERAMIC CHIP	0.47MF		16V
C411	1-164-005-11	CERAMIC CHIP	0.47MF		25V
C412	1-164-005-11	CERAMIC CHIP	0.47MF		25V
C421	1-124-910-11	ELECT	47MF	20%	50V
C422	1-124-910-11	ELECT	47MF	20%	50V
C423	1-101-004-00	CERAMIC	0.01MF		50V
C424	1-163-129-00	CERAMIC CHIP	330PF	5%	50V
C425	1-163-129-00	CERAMIC CHIP	330PF	5%	50V
C426	1-124-910-11	ELECT	47MF	20%	50V
C427	1-164-346-11	CERAMIC CHIP	1MF		16V
C428	1-164-346-11	CERAMIC CHIP	1MF		16V
C429	1-124-119-00	ELECT	330MF	20%	16V
C574	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C581	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C582	1-126-233-11	ELECT	22MF	20%	50V
C583	1-163-121-00	CERAMIC CHIP	150PF	5%	50V
C586	1-163-063-00	CERAMIC CHIP	0.022MF	10%	50V
C587	1-124-903-11	ELECT	1MF	20%	50V
C588	1-164-346-11	CERAMIC CHIP	1MF		16V
C589	1-126-233-11	ELECT	22MF	20%	50V
C590	1-126-233-11	ELECT	22MF	20%	50V
C591	1-124-925-11	ELECT	2.2MF	20%	50V
C592	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V
C593	1-164-182-11	CERAMIC CHIP	0.0033MF	10%	50V
C595	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C681	1-124-478-11	ELECT	100MF	20%	25V
C682	1-126-101-11	ELECT	100MF	20%	16V
C683	1-124-478-11	ELECT	100MF	20%	25V
C684	1-124-478-11	ELECT	100MF	20%	25V
C685	1-124-478-11	ELECT	100MF	20%	25V

<FILTER>

REF.NO.	PART NO.	DESCRIPTION	REMARK
CF581	1-577-611-11	OSCILALTOR, CERAMIC	

<CONNECTOR>

REF.NO.	PART NO.	DESCRIPTION	REMARK
CN0001*	1-568-880-71	PIN, CONNECTOR 5P	
CN0101	1-695-297-11	CONNECTOR, BOARD TO BOARD 20P	(KV-S2911D,S2912U,S2913E)
CN0102	1-573-296-11	CONNECTOR, BOARD TO BOARD 10P	
CN0103*	1-564-511-11	PLUG, CONNECTOR 8P	
CN0104*	1-568-882-51	PIN, CONNECTOR 7P	
CN0105*	1-568-880-51	PIN, CONNECTOR 5P	
CN0107*	1-568-879-51	PIN, CONNECTOR 4P	
CN0108*	1-568-878-51	PIN, CONNECTOR 3P	
CN0109	1-695-299-11	CONNECTOR, BOARD TO BOARD 50P	
CN0110*	1-568-882-51	PIN, CONNECTOR 7P	
CN0111	1-568-882-51	PIN, CONNECTOR 7P	
CN0113	1-695-298-11	CONNECTOR, BOARD TO BOARD 40P	
CN0114*	1-568-879-51	PIN, CONNECTOR 4P	
CN0115*	1-564-516-11	PLUG, CONNECTOR 13P	
CN0116*	1-568-879-51	PIN, CONNECTOR 4P	
CN0119*	1-568-879-81	PIN, CONNECTOR 4P	
CN0137*	1-564-511-11	PLUG, CONNECTOR 8P	
CN5108*	1-564-513-11	PLUG, CONNECTOR 10P	

<DIODE>

REF.NO.	PART NO.	DESCRIPTION	REMARK
D068	8-719-104-34	DIODE 1S2836	
D069	8-719-104-34	DIODE 1S2836	
D071	8-719-109-89	DIODE RD5.6ES-B2	
D073	8-719-109-89	DIODE RD5.6ES-B2	
D075	8-719-400-18	DIODE MA152WK	
D077	8-719-400-18	DIODE MA152WK	
D078	8-719-109-89	DIODE RD5.6ES-B2	
D079	8-719-109-89	DIODE RD5.6ES-B2	
D101	8-719-982-27	DIODE MTZJ-33C	
D205	8-719-023-21	DIODE DA116-T146	
D206	8-719-400-18	DIODE MA152WK	
D207	8-719-921-89	DIODE MTZJ-13C	
D208	8-719-911-19	DIODE 1SS119	
D209	8-719-911-19	DIODE 1SS119	
D210	8-719-911-19	DIODE 1SS119	
D211	8-719-911-19	DIODE 1SS119	
D212	8-719-911-19	DIODE 1SS119	
D213	8-719-400-18	DIODE MA152WK	
D301	8-719-400-18	DIODE MA152WK	
D302	8-719-104-34	DIODE 1S2836	
D303	8-719-104-34	DIODE 1S2836	
D304	8-719-109-89	DIODE RD5.6ES-B2	
D305	8-719-400-18	DIODE MA152WK	
D306	8-719-400-18	DIODE MA152WK	
D307	8-719-400-18	DIODE MA152WK	
D308	8-719-800-76	DIODE 1SS226	
D311	8-719-800-76	DIODE 1SS226	
D381	8-719-110-03	DIODE RD7.5ES-B2	
D401	8-719-921-69	DIODE MTZJ-9.1	
D403	8-719-921-69	DIODE MTZJ-9.1	
D405	8-719-921-69	DIODE MTZJ-9.1	
D406	8-719-921-69	DIODE MTZJ-9.1	
D407	8-719-921-69	DIODE MTZJ-9.1	
D571	8-719-800-76	DIODE 1SS226	
D681	8-719-981-99	DIODE MTZJ-3.3	
D682	8-719-109-89	DIODE RD5.6ES-B2	

<IC>

REF.NO.	PART NO.	DESCRIPTION	REMARK
IC072	8-759-073-14	IC X24C16P	
IC201	8-759-073-30	IC TDA6612	(KV-S2911B,S2911D,S2913E)
	8-759-073-31	IC TDA6622	(KV-S2912U)
IC202	8-759-502-21	IC TDA2822M	
IC251	8-759-072-99	IC TDA2052	
IC261	8-759-072-99	IC TDA2052	
IC301	8-759-073-15	IC TDA9145	
IC302	8-759-505-39	IC TDA4660V2	
IC304	8-752-056-54	IC CXA1587S	
IC401	8-752-062-86	IC CXA1545AS	
IC402	8-759-073-00	IC TEA2114	
IC681	8-759-072-98	IC TDA8138A	
IC683	8-759-982-10	IC RC7809FA	
IC684	8-759-982-10	IC RC7809FA	

<IF BLOCK>

REF.NO.	PART NO.	DESCRIPTION	REMARK
IFB101	1-466-733-11	IF BLOCK (IFH-389)	(KV-S2911D,S2913E)

A

REF.NO.	PART NO.	DESCRIPTION	REMARK
IFB101	1-466-734-11	IF BLOCK (IFH-395) (KV-S2912U)	
	1-466-735-11	IF BLOCK (IFH-389F) (KV-S2911B)	

<COIL>

REF.NO.	PART NO.	DESCRIPTION	REMARK
L101	1-412-546-21	INDUCTOR 560UH	
L102	1-408-413-00	INDUCTOR 22UH	
L201	1-407-500-00	INDUCTOR 4.7MMH	
L306	1-408-405-00	INDUCTOR 4.7UH	
L308	1-408-417-00	INDUCTOR 47UH	
L610	1-412-539-21	INDUCTOR 150UH	
L611	1-412-539-21	INDUCTOR 150UH	

<TRANSISTOR>

REF.NO.	PART NO.	DESCRIPTION	REMARK
Q071	8-729-901-05	TRANSISTOR DTA124EK	
Q101	8-729-216-22	TRANSISTOR 2SA1162-G	
Q102	8-729-901-00	TRANSISTOR DTC124EK	
Q103	8-729-900-53	TRANSISTOR DTC114EK	
Q201	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q202	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q203	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q204	8-729-216-22	TRANSISTOR 2SA1162-G	
Q205	8-729-216-22	TRANSISTOR 2SA1162-G	
Q206	8-729-216-22	TRANSISTOR 2SA1162-G	
Q207	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q209	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q301	8-729-901-00	TRANSISTOR DTC124EK	
Q302	8-729-216-22	TRANSISTOR 2SA1162-G	
Q303	8-729-216-22	TRANSISTOR 2SA1162-G	
Q304	8-729-900-53	TRANSISTOR DTC114EK	
Q305	8-729-901-01	TRANSISTOR DTC144EK	
Q306	8-729-216-22	TRANSISTOR 2SA1162-G	
Q308	8-729-216-22	TRANSISTOR 2SA1162-G	
Q309	8-729-931-02	TRANSISTOR 2SC2413K-Q	
Q311	8-729-901-06	TRANSISTOR DTA144EK	
Q312	8-729-900-53	TRANSISTOR DTC114EK	
Q401	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q402	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q403	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q404	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q581	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q582	8-729-216-22	TRANSISTOR 2SA1162-G	
Q610	8-729-140-97	TRANSISTOR 2SB734-34	
Q611	8-729-900-53	TRANSISTOR DTC114EK	
Q683	8-729-140-96	TRANSISTOR 2SD774-34	

<RESISTOR>

REF.NO.	PART NO.	DESCRIPTION	REMARK
JR101	1-216-295-00	METAL GLAZE 0 5% 1/10W	
JR102	1-216-295-00	METAL GLAZE 0 5% 1/10W	
JR103	1-216-295-00	METAL GLAZE 0 5% 1/10W	
JR104	1-216-295-00	METAL GLAZE 0 5% 1/10W	
JR105	1-216-295-00	METAL GLAZE 0 5% 1/10W	
JR107	1-216-295-00	METAL GLAZE 0 5% 1/10W	
JR108	1-216-295-00	METAL GLAZE 0 5% 1/10W	
JR109	1-216-295-00	METAL GLAZE 0 5% 1/10W	
JR110	1-216-295-00	METAL GLAZE 0 5% 1/10W	
JR111	1-216-295-00	METAL GLAZE 0 5% 1/10W	
JR112	1-216-295-00	METAL GLAZE 0 5% 1/10W	
JR113	1-216-295-00	METAL GLAZE 0 5% 1/10W	
JR114	1-216-295-00	METAL GLAZE 0 5% 1/10W	
JR115	1-216-295-00	METAL GLAZE 0 5% 1/10W	
JR116	1-216-295-00	METAL GLAZE 0 5% 1/10W	
JR117	1-216-295-00	METAL GLAZE 0 5% 1/10W	
JR118	1-216-295-00	METAL GLAZE 0 5% 1/10W	
JR119	1-216-295-00	METAL GLAZE 0 5% 1/10W	
JR120	1-216-295-00	METAL GLAZE 0 5% 1/10W	
JR121	1-216-295-00	METAL GLAZE 0 5% 1/10W	
JR122	1-216-295-00	METAL GLAZE 0 5% 1/10W	
JR123	1-216-295-00	METAL GLAZE 0 5% 1/10W	
JR124	1-216-295-00	METAL GLAZE 0 5% 1/10W	
JR125	1-216-295-00	METAL GLAZE 0 5% 1/10W	
JR127	1-216-295-00	METAL GLAZE 0 5% 1/10W	
JR128	1-216-295-00	METAL GLAZE 0 5% 1/10W	
JR129	1-216-295-00	METAL GLAZE 0 5% 1/10W	
JR131	1-216-295-00	METAL GLAZE 0 5% 1/10W	
JR132	1-216-295-00	METAL GLAZE 0 5% 1/10W	
JR133	1-216-295-00	METAL GLAZE 0 5% 1/10W	
JR134	1-216-295-00	METAL GLAZE 0 5% 1/10W	
JR136	1-216-295-00	METAL GLAZE 0 5% 1/10W	
JR137	1-216-295-00	METAL GLAZE 0 5% 1/10W	
JR138	1-216-295-00	METAL GLAZE 0 5% 1/10W	
JR140	1-216-295-00	METAL GLAZE 0 5% 1/10W	
JR141	1-216-295-00	METAL GLAZE 0 5% 1/10W	
JR142	1-216-295-00	METAL GLAZE 0 5% 1/10W	
JR143	1-216-295-00	METAL GLAZE 0 5% 1/10W	
JR144	1-216-295-00	METAL GLAZE 0 5% 1/10W	
JR150	1-216-295-00	METAL GLAZE 0 5% 1/10W	
JR201	1-216-296-00	METAL GLAZE 0 5% 1/8W	
JR202	1-216-296-00	METAL GLAZE 0 5% 1/8W	
JR203	1-216-296-00	METAL GLAZE 0 5% 1/8W	
JR204	1-216-296-00	METAL GLAZE 0 5% 1/8W	
JR205	1-216-296-00	METAL GLAZE 0 5% 1/8W	
JR206	1-216-296-00	METAL GLAZE 0 5% 1/8W	
JR207	1-216-296-00	METAL GLAZE 0 5% 1/8W	
JR208	1-216-296-00	METAL GLAZE 0 5% 1/8W	
JR209	1-216-296-00	METAL GLAZE 0 5% 1/8W	
JR210	1-216-296-00	METAL GLAZE 0 5% 1/8W	
JR211	1-216-296-00	METAL GLAZE 0 5% 1/8W	
JR212	1-216-296-00	METAL GLAZE 0 5% 1/8W	
JR213	1-216-296-00	METAL GLAZE 0 5% 1/8W	
JR214	1-216-296-00	METAL GLAZE 0 5% 1/8W	
JR215	1-216-296-00	METAL GLAZE 0 5% 1/8W	
JR216	1-216-296-00	METAL GLAZE 0 5% 1/8W	
JR217	1-216-296-00	METAL GLAZE 0 5% 1/8W	
JR218	1-216-296-00	METAL GLAZE 0 5% 1/8W	
JR219	1-216-296-00	METAL GLAZE 0 5% 1/8W	
JR220	1-216-296-00	METAL GLAZE 0 5% 1/8W	
JR221	1-216-296-00	METAL GLAZE 0 5% 1/8W	
JR222	1-216-296-00	METAL GLAZE 0 5% 1/8W	
JR223	1-216-296-00	METAL GLAZE 0 5% 1/8W	
JR224	1-216-296-00	METAL GLAZE 0 5% 1/8W	
JR225	1-216-296-00	METAL GLAZE 0 5% 1/8W	
JR226	1-216-296-00	METAL GLAZE 0 5% 1/8W	
JR227	1-216-296-00	METAL GLAZE 0 5% 1/8W	
JR228	1-216-296-00	METAL GLAZE 0 5% 1/8W	
JR229	1-216-296-00	METAL GLAZE 0 5% 1/8W	
JR230	1-216-296-00	METAL GLAZE 0 5% 1/8W	
JR231	1-216-296-00	METAL GLAZE 0 5% 1/8W	
JR232	1-216-296-00	METAL GLAZE 0 5% 1/8W	
JR233	1-216-296-00	METAL GLAZE 0 5% 1/8W	
JR234	1-216-296-00	METAL GLAZE 0 5% 1/8W	
JR235	1-216-296-00	METAL GLAZE 0 5% 1/8W	
JR236	1-216-296-00	METAL GLAZE 0 5% 1/8W	
JR237	1-216-296-00	METAL GLAZE 0 5% 1/8W	
JR238	1-216-296-00	METAL GLAZE 0 5% 1/8W	

REF.NO.	PART NO.	DESCRIPTION				REMARK
JR239	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR240	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR241	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR242	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR243	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR244	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR245	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR247	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR248	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR250	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR251	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR252	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR253	1-216-296-00	METAL GLAZE	0	5%	1/8W	
R071	1-216-041-00	METAL GLAZE	470	5%	1/10W	
R072	1-216-033-00	METAL GLAZE	220	5%	1/10W	
R073	1-216-033-00	METAL GLAZE	220	5%	1/10W	
R074	1-216-198-00	METAL GLAZE	1K	5%	1/8W	
R076	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
R077	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R101	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R102	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R103	1-216-059-00	METAL GLAZE	2.7K	5%	1/10W	
R105	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R108	1-216-230-00	METAL GLAZE	22K	5%	1/8W	
R115	1-216-210-00	METAL GLAZE	3.3K	5%	1/8W	
R201	1-216-653-11	METAL CHIP	1.2K	0.50%	1/10W	
R202	1-216-653-11	METAL CHIP	1.2K	0.50%	1/10W	
R203	1-216-067-00	METAL GLAZE	5.6K	5%	1/10W	
R204	1-216-091-00	METAL GLAZE	56K	5%	1/10W	
R205	1-216-071-00	METAL GLAZE	8.2K	5%	1/10W	
R206	1-216-071-00	METAL GLAZE	8.2K	5%	1/10W	
R207	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
R208	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
R209	1-249-377-11	CARBON	0.47	5%	1/4W	F
R210	1-247-734-11	CARBON	39	5%	1/2W	
R211	1-247-734-11	CARBON	39	5%	1/2W	
R212	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R213	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R214	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R215	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R216	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R217	1-216-047-00	METAL GLAZE	820	5%	1/10W	
R218	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R221	1-212-849-00	FUSIBLE	4.7	5%	1/4W	F
R222	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R223	1-216-047-00	METAL GLAZE	820	5%	1/10W	
R224	1-249-433-11	CARBON	22K	5%	1/4W	
R225	1-212-849-00	FUSIBLE	4.7	5%	1/4W	F
R226	1-249-412-11	CARBON	390	5%	1/4W	
R227	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R228	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R229	1-216-039-00	METAL GLAZE	390	5%	1/10W	
R230	1-216-246-00	METAL GLAZE	100K	5%	1/8W	
R231	1-216-097-00	METAL GLAZE	100K	5%	1/10W	
R232	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R233	1-216-071-00	METAL GLAZE	8.2K	5%	1/10W	
R234	1-216-077-00	METAL GLAZE	15K	5%	1/10W	
R235	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R236	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R237	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R238	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R239	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R240	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
R241	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	

REF.NO.	PART NO.	DESCRIPTION				REMARK
R242	1-216-218-00	METAL GLAZE	6.8K	5%	1/8W	
R243	1-249-438-11	CARBON	56K	5%	1/4W	
R244	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
R245	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
R247	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R248	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R249	1-216-045-00	METAL GLAZE	680	5%	1/10W	
R250	1-216-095-00	METAL GLAZE	82K	5%	1/10W	
R251	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R252	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R253	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R254	1-216-252-00	METAL GLAZE	180K	5%	1/8W	
R255	1-216-252-00	METAL GLAZE	180K	5%	1/8W	
R256	1-249-409-11	CARBON	220	5%	1/4W	
R257	1-249-409-11	CARBON	220	5%	1/4W	
R259	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R260	1-216-198-00	METAL GLAZE	1K	5%	1/8W	
R301	1-216-041-00	METAL GLAZE	470	5%	1/10W	
R302	1-216-041-00	METAL GLAZE	470	5%	1/10W	
R303	1-216-174-00	METAL GLAZE	100	5%	1/8W	
R304	1-216-174-00	METAL GLAZE	100	5%	1/8W	
R305	1-216-035-00	METAL GLAZE	270	5%	1/10W	
R306	1-216-035-00	METAL GLAZE	270	5%	1/10W	
R307	1-216-075-00	METAL GLAZE	12K	5%	1/10W	
R308	1-216-121-00	METAL GLAZE	1M	5%	1/10W	
R309	1-216-001-00	METAL GLAZE	10	5%	1/10W	
R310	1-216-001-00	METAL GLAZE	10	5%	1/10W	
R311	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R312	1-249-413-11	CARBON	470	5%	1/4W	
R313	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R314	1-249-409-11	CARBON	220	5%	1/4W	
R315	1-249-409-11	CARBON	220	5%	1/4W	
R316	1-216-097-00	METAL GLAZE	100K	5%	1/10W	
R317	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R318	1-216-041-00	METAL GLAZE	470	5%	1/10W	
R319	1-249-413-11	CARBON	470	5%	1/4W	
R320	1-216-174-00	METAL GLAZE	100	5%	1/8W	
R321	1-216-039-00	METAL GLAZE	390	5%	1/10W	
R322	1-216-041-00	METAL GLAZE	470	5%	1/10W	
R324	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R325	1-216-041-00	METAL GLAZE	470	5%	1/10W	
R326	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R328	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R329	1-216-023-00	METAL GLAZE	82	5%	1/10W	
R330	1-216-053-00	METAL GLAZE	1.5K	5%	1/10W	
R331	1-216-097-00	METAL GLAZE	100K	5%	1/10W	
R333	1-216-182-00	METAL GLAZE	220	5%	1/8W	
R334	1-216-182-00	METAL GLAZE	220	5%	1/8W	
R339	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R340	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R341	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R342	1-216-033-00	METAL GLAZE	220	5%	1/10W	
R343	1-216-022-00	METAL GLAZE	75	5%	1/10W	
R344	1-216-022-00	METAL GLAZE	75	5%	1/10W	
R345	1-216-171-00	METAL GLAZE	75	5%	1/8W	
R346	1-216-022-00	METAL GLAZE	75	5%	1/10W	
R347	1-216-083-00	METAL GLAZE	27K	5%	1/10W	
R348	1-216-029-00	METAL GLAZE	150	5%	1/10W	
R349	1-216-029-00	METAL GLAZE	150	5%	1/10W	
R350	1-216-178-00	METAL GLAZE	150	5%	1/8W	
R351	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R352	1-216-033-00	METAL GLAZE	220	5%	1/10W	
R354	1-216-033-00	METAL GLAZE	220	5%	1/10W	

Les composants identifies par une trame et une marque ⚠ sont critiques pour la securite.
Ne les remplacer que par une piece portant le numero specifie.

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

A IF

REF.NO.	PART NO.	DESCRIPTION				REMARK
R355	1-216-033-00	METAL GLAZE	220	5%	1/10W	
R356	1-216-033-00	METAL GLAZE	220	5%	1/10W	
R357	1-216-041-00	METAL GLAZE	470	5%	1/10W	
R358	1-216-031-00	METAL GLAZE	180	5%	1/10W	
R359	1-216-033-00	METAL GLAZE	220	5%	1/10W	
R360	1-216-033-00	METAL GLAZE	220	5%	1/10W	
R361	1-216-033-00	METAL GLAZE	220	5%	1/10W	
R362	1-216-077-00	METAL GLAZE	15K	5%	1/10W	
R365	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R366	1-216-067-00	METAL GLAZE	5.6K	5%	1/10W	
R367	1-216-198-00	METAL GLAZE	1K	5%	1/8W	
R368	1-216-033-00	METAL GLAZE	220	5%	1/10W	
R369	1-216-033-00	METAL GLAZE	220	5%	1/10W	
R370	1-216-033-00	METAL GLAZE	220	5%	1/10W	
R371	1-216-033-00	METAL GLAZE	220	5%	1/10W	
R373	1-216-017-00	METAL GLAZE	47	5%	1/10W	
R376	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R377	1-216-051-00	METAL GLAZE	1.2K	5%	1/10W	
R378	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
R379	1-216-206-00	METAL GLAZE	2.2K	5%	1/8W	
R380	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
R401	1-216-171-00	METAL GLAZE	75	5%	1/8W	
R402	1-216-158-00	METAL GLAZE	22	5%	1/8W	
R403	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R404	1-216-158-00	METAL GLAZE	22	5%	1/8W	
R405	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R406	1-216-158-00	METAL GLAZE	22	5%	1/8W	
R407	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R408	1-216-093-00	METAL GLAZE	68K	5%	1/10W	
R410	1-216-067-00	METAL GLAZE	5.6K	5%	1/10W	
R411	1-216-067-00	METAL GLAZE	5.6K	5%	1/10W	
R412	1-216-022-00	METAL GLAZE	75	5%	1/10W	
R413	1-216-022-00	METAL GLAZE	75	5%	1/10W	
R414	1-216-022-00	METAL GLAZE	75	5%	1/10W	
R416	1-216-113-00	METAL GLAZE	470K	5%	1/10W	
R417	1-216-067-00	METAL GLAZE	5.6K	5%	1/10W	
R419	1-216-113-00	METAL GLAZE	470K	5%	1/10W	
R420	1-216-067-00	METAL GLAZE	5.6K	5%	1/10W	
R423	1-216-015-00	METAL GLAZE	39	5%	1/10W	
R424	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R425	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R426	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R427	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R428	1-249-393-11	CARBON	10	5%	1/4W	F
R572	1-216-198-00	METAL GLAZE	1K	5%	1/8W	
R574	1-216-041-00	METAL GLAZE	470	5%	1/10W	
R575	1-216-037-00	METAL GLAZE	330	5%	1/10W	
R581	1-216-033-00	METAL GLAZE	220	5%	1/10W	
R582	1-216-037-00	METAL GLAZE	330	5%	1/10W	
R583	1-216-053-00	METAL GLAZE	1.5K	5%	1/10W	
R584	1-216-039-00	METAL GLAZE	390	5%	1/10W	
R586	1-216-053-00	METAL GLAZE	1.5K	5%	1/10W	
R587	1-216-045-00	METAL GLAZE	680	5%	1/10W	
R588	1-216-101-00	METAL GLAZE	150K	5%	1/10W	
R589	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R590	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R591	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R592	1-216-232-00	METAL GLAZE	27K	5%	1/8W	
R593	1-216-063-00	METAL GLAZE	3.9K	5%	1/10W	
R594	1-216-053-00	METAL GLAZE	1.5K	5%	1/10W	
R595	1-216-643-11	METAL CHIP	470	0.50%	1/10W	
R596	1-216-670-11	METAL CHIP	6.2K	0.50%	1/10W	
R597	1-216-230-00	METAL GLAZE	22K	5%	1/8W	
R600	1-216-190-00	METAL GLAZE	470	5%	1/8W	

REF.NO.	PART NO.	DESCRIPTION				REMARK
R616	1-216-035-00	METAL GLAZE	270	5%	1/10W	
R628	1-249-411-11	CARBON	330	5%	1/4W	
R681	1-216-397-11	METAL OXIDE	4.7	5%	3W	F
R684	1-216-047-00	METAL GLAZE	820	5%	1/10W	
R685	1-216-049-00	METAL GLAZE	1K	5%	1/10W	

<TUNER>

TU101⚠	1-693-184-11	TUNER (U944C) (KV-S2912U)
⚠	1-693-185-11	TUNER (UV916H) (KV-S2911B,S2911D,S2913E)

<CRYSTAL>

X301	1-567-504-11	OSCILLATOR, CRYSTAL
X302	1-567-505-11	OSCILLATOR, CRYSTAL

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1-466-733-11 IF BLOCK (IFH-389) (KV-S2911D,S2913E)
****

<CAPACITOR>

C101	1-163-121-00	CERAMIC CHIP	150PF	5%	50V
C102	1-164-222-11	CERAMIC CHIP	0.22MF		25V
C103	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C104	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C105	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C106	1-124-477-11	ELECT	47MF	20%	16V
C107	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C108	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C109	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C112	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C113	1-163-101-00	CERAMIC CHIP	22PF	5%	50V
C114	1-124-477-11	ELECT	47MF	20%	16V
C115	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C116	1-164-346-11	CERAMIC CHIP	1MF		16V
C118	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C119	1-163-369-11	CERAMIC CHIP	47PF	5%	50V
C121	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C122	1-163-239-11	CERAMIC CHIP	33PF	5%	50V
C123	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C124	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C130	1-216-295-00	METAL GLAZE	0	5%	1/10W
C131	1-163-093-00	CERAMIC CHIP	10PF	5%	50V
C133	1-124-477-11	ELECT	47MF	20%	16V
C152	1-164-337-11	CERAMIC CHIP	2.2MF		16V
C153	1-164-337-11	CERAMIC CHIP	2.2MF		16V
C154	1-164-337-11	CERAMIC CHIP	2.2MF		16V
C155	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C156	1-124-477-11	ELECT	47MF	20%	16V
C161	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C162	1-164-222-11	CERAMIC CHIP	0.22MF		25V
C163	1-164-346-11	CERAMIC CHIP	1MF		16V
C164	1-163-141-00	CERAMIC CHIP	0.001MF	5%	50V
C165	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C166	1-124-477-11	ELECT	47MF	20%	16V
C167	1-163-213-00	CERAMIC CHIP	0.0022MF	5%	50V
C168	1-164-346-11	CERAMIC CHIP	1MF		16V
C170	1-124-477-11	ELECT	47MF	20%	16V
C171	1-124-477-11	ELECT	47MF	20%	16V
C172	1-124-477-11	ELECT	47MF	20%	16V
C173	1-124-477-11	ELECT	47MF	20%	16V

REF.NO.	PART NO.	DESCRIPTION				REMARK
		<FILTER>				
CF2	1-527-839-00	FILTER, CERAMIC				
CF3	1-527-840-00	FILTER, CERAMIC				
CF4	1-567-570-11	FILTER, CERAMIC				
SWF1	1-579-658-11	FILTER, SAWTOOTH WAVE				
		<CONNECTOR>				
CN1	*1-506-913-11	PIN, CONNECTOR 10P				
CN2	*1-506-913-11	PIN, CONNECTOR 10P				
		<TRIMMER>				
CT1	1-404-801-11	TRAP, CERAMIC				
		<DIODE>				
D161	8-719-400-18	DIODE MA152WK				
		<IC>				
IC1	8-759-070-76	IC M52308SP				
IC2	8-759-070-71	IC TDA9820				
IC3	8-759-514-54	IC BA7046				
		<COIL>				
L101	1-408-421-00	INDUCTOR	100UH			
L102	1-408-419-00	INDUCTOR	68UH			
L103	1-408-419-00	INDUCTOR	68UH			
L104	1-408-408-00	INDUCTOR	8.2UH			
L121	1-408-413-00	INDUCTOR	22UH			
L122	1-408-420-00	INDUCTOR	82UH			
L142	1-410-790-41	INDUCTOR	0.56UH			
L151	1-408-419-00	INDUCTOR	68UH			
L161	1-408-419-00	INDUCTOR	68UH			
		<TRANSISTOR>				
Q101	8-729-120-28	TRANSISTOR 2SC1623-L5L6				
Q102	8-729-216-22	TRANSISTOR 2SA1162-G				
Q121	8-729-120-28	TRANSISTOR 2SC1623-L5L6				
Q122	8-729-216-22	TRANSISTOR 2SA1162-G				
Q161	8-729-216-22	TRANSISTOR 2SA1162-G				
Q170	8-729-120-28	TRANSISTOR 2SC1623-L5L6				
Q171	8-729-120-28	TRANSISTOR 2SC1623-L5L6				
Q172	8-729-120-28	TRANSISTOR 2SC1623-L5L6				
Q173	8-729-120-28	TRANSISTOR 2SC1623-L5L6				
		<RESISTOR>				
JR2	1-216-295-00	METAL GLAZE	0	5%	1/10W	
JR3	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR4	1-216-295-00	METAL GLAZE	0	5%	1/10W	
JR7	1-216-295-00	METAL GLAZE	0	5%	1/10W	
JR8	1-216-295-00	METAL GLAZE	0	5%	1/10W	
JR9	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR11	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR14	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR16	1-216-295-00	METAL GLAZE	0	5%	1/10W	
JR18	1-216-295-00	METAL GLAZE	0	5%	1/10W	
JR19	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR20	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR21	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR23	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR24	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR25	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR29	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR30	1-216-295-00	METAL GLAZE	0	5%	1/10W	
JR33	1-216-295-00	METAL GLAZE	0	5%	1/10W	
JR38	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR39	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR40	1-216-296-00	METAL GLAZE	0	5%	1/8W	
R101	1-216-075-00	METAL GLAZE	12K	5%	1/10W	
R102	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R103	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
R104	1-216-051-00	METAL GLAZE	1.2K	5%	1/10W	
R106	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R107	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R108	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R110	1-216-041-00	METAL GLAZE	470	5%	1/10W	
R113	1-216-031-00	METAL GLAZE	180	5%	1/10W	
R114	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R115	1-216-027-00	METAL GLAZE	120	5%	1/10W	
R116	1-216-101-00	METAL GLAZE	150K	5%	1/10W	
R117	1-216-097-00	METAL GLAZE	100K	5%	1/10W	
R118	1-216-117-00	METAL GLAZE	680K	5%	1/10W	
R119	1-216-240-00	METAL GLAZE	56K	5%	1/8W	
R120	1-216-075-00	METAL GLAZE	12K	5%	1/10W	
R121	1-216-053-00	METAL GLAZE	1.5K	5%	1/10W	
R122	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W	
R123	1-216-075-00	METAL GLAZE	12K	5%	1/10W	
R124	1-216-041-00	METAL GLAZE	470	5%	1/10W	
R125	1-216-041-00	METAL GLAZE	470	5%	1/10W	
R127	1-216-047-00	METAL GLAZE	820	5%	1/10W	
R130	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R131	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R132	1-216-069-00	METAL GLAZE	6.8K	5%	1/10W	
R133	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W	
R134	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R135	1-216-198-00	METAL GLAZE	1K	5%	1/8W	
R150	1-216-043-00	METAL GLAZE	560	5%	1/10W	
R151	1-216-043-00	METAL GLAZE	560	5%	1/10W	
R152	1-216-043-00	METAL GLAZE	560	5%	1/10W	
R153	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R154	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R155	1-216-051-00	METAL GLAZE	1.2K	5%	1/10W	
R156	1-216-083-00	METAL GLAZE	27K	5%	1/10W	
R157	1-216-051-00	METAL GLAZE	1.2K	5%	1/10W	
R159	1-216-107-00	METAL GLAZE	270K	5%	1/10W	
R160	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R161	1-216-100-00	METAL CHIP	130K	0.50%	1/10W	
R162	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R163	1-216-113-00	METAL GLAZE	470K	5%	1/10W	
R164	1-216-113-00	METAL GLAZE	470K	5%	1/10W	
R165	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R166	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R167	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R168	1-216-113-00	METAL GLAZE	470K	5%	1/10W	
R169	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R170	1-216-083-00	METAL GLAZE	27K	5%	1/10W	
R171	1-216-075-00	METAL GLAZE	12K	5%	1/10W	
R172	1-216-095-00	METAL GLAZE	82K	5%	1/10W	
R173	1-216-059-00	METAL GLAZE	2.7K	5%	1/10W	
R174	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
R175	1-216-083-00	METAL GLAZE	27K	5%	1/10W	
R176	1-216-075-00	METAL GLAZE	12K	5%	1/10W	

IF

REF.NO.	PART NO.	DESCRIPTION	REMARK
R177	1-216-095-00	METAL GLAZE 82K 5% 1/10W	
R178	1-216-059-00	METAL GLAZE 2.7K 5% 1/10W	
R179	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W	
R180	1-216-037-00	METAL GLAZE 330 5% 1/10W	
R181	1-216-037-00	METAL GLAZE 330 5% 1/10W	
		<VARIABLE RESISTOR>	
RV1	1-241-121-11	RES, ADJ, CARBON 4.7K	
		<TRANSFORMER>	
T4	1-416-017-11	COIL, IF	
T5	1-416-018-21	COIL, IF	
********	********	**************************************	******
	1-466-734-11	IF BLOCK (IFH-395) (KV-S2912U) *****************	
		<CAPACITOR>	
C101	1-163-239-11	CERAMIC CHIP 33PF 5% 50V	
C102	1-164-222-11	CERAMIC CHIP 0.22MF 25V	
C103	1-164-232-11	CERAMIC CHIP 0.01MF 10% 50V	
C104	1-164-232-11	CERAMIC CHIP 0.01MF 10% 50V	
C105	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V	
C106	1-124-477-11	ELECT 47MF 20% 16V	
C107	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V	
C108	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V	
C109	1-164-232-11	CERAMIC CHIP 0.01MF 10% 50V	
C112	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V	
C113	1-163-101-00	CERAMIC CHIP 22PF 5% 50V	
C114	1-124-477-11	ELECT 47MF 20% 16V	
C115	1-164-232-11	CERAMIC CHIP 0.01MF 10% 50V	
C116	1-164-346-11	CERAMIC CHIP 1MF 16V	
C118	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V	
C119	1-163-369-11	CERAMIC CHIP 47PF 5% 50V	
C122	1-163-093-00	CERAMIC CHIP 10PF 5% 50V	
C130	1-216-295-00	METAL GLAZE 0 5% 1/10W	
C131	1-163-224-11	CERAMIC CHIP 7PF 0.25PF 50V	
C133	1-124-477-11	ELECT 47MF 20% 16V	
C161	1-163-117-00	CERAMIC CHIP 100PF 5% 50V	
C162	1-164-222-11	CERAMIC CHIP 0.22MF 25V	
C163	1-164-346-11	CERAMIC CHIP 1MF 16V	
C164	1-163-141-00	CERAMIC CHIP 0.001MF 5% 50V	
C165	1-164-232-11	CERAMIC CHIP 0.01MF 10% 50V	
C166	1-124-477-11	ELECT 47MF 20% 16V	
C167	1-163-213-00	CERAMIC CHIP 0.0022MF 5% 50V	
C168	1-164-346-11	CERAMIC CHIP 1MF 16V	
C170	1-124-477-11	ELECT 47MF 20% 16V	
C171	1-124-477-11	ELECT 47MF 20% 16V	
		<FILTER>	
CD1	1-579-657-21	DISCRIMINATOR, CERAMIC	
CF1	1-567-569-11	FILTER, CERAMIC	
SWF1	1-579-659-11	FILTER, SAWTOOTH WAVE	
		<CONNECTOR>	
CN1	*1-506-913-11	PIN, CONNECTOR 10P	
CN2	*1-506-913-11	PIN, CONNECTOR 10P	

REF.NO.	PART NO.	DESCRIPTION	REMARK
		<TRIMMER>	
CT1	1-409-333-00	TRAP, CERAMIC (6.0MHZ)	
		<DIODE>	
D161	8-719-400-18	DIODE MA152WK	
		<IC>	
IC1	8-759-070-76	IC M52308SP	
IC3	8-759-514-54	IC BA7046	
		<COIL>	
L101	1-408-414-00	INDUCTOR 27UH	
L102	1-408-419-00	INDUCTOR 68UH	
L103	1-408-419-00	INDUCTOR 68UH	
L104	1-408-406-00	INDUCTOR 5.6UH	
L105	1-408-410-00	INDUCTOR 12UH	
L142	1-410-790-41	INDUCTOR 0.56UH	
L161	1-408-419-00	INDUCTOR 68UH	
		<TRANSISTOR>	
Q101	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q102	8-729-216-22	TRANSISTOR 2SA1162-G	
Q122	8-729-216-22	TRANSISTOR 2SA1162-G	
Q161	8-729-216-22	TRANSISTOR 2SA1162-G	
Q172	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q173	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
		<RESISTOR>	
JR1	1-216-296-00	METAL GLAZE 0 5% 1/8W	
JR2	1-216-295-00	METAL GLAZE 0 5% 1/10W	
JR3	1-216-296-00	METAL GLAZE 0 5% 1/8W	
JR4	1-216-295-00	METAL GLAZE 0 5% 1/10W	
JR7	1-216-295-00	METAL GLAZE 0 5% 1/10W	
JR8	1-216-295-00	METAL GLAZE 0 5% 1/10W	
JR9	1-216-296-00	METAL GLAZE 0 5% 1/8W	
JR10	1-216-296-00	METAL GLAZE 0 5% 1/8W	
JR11	1-216-296-00	METAL GLAZE 0 5% 1/8W	
JR12	1-216-295-00	METAL GLAZE 0 5% 1/10W	
JR13	1-163-093-00	CERAMIC CHIP 10PF 5% 50V	
JR14	1-216-296-00	METAL GLAZE 0 5% 1/8W	
JR16	1-216-295-00	METAL GLAZE 0 5% 1/10W	
JR18	1-216-295-00	METAL GLAZE 0 5% 1/10W	
JR19	1-216-296-00	METAL GLAZE 0 5% 1/8W	
JR20	1-216-296-00	METAL GLAZE 0 5% 1/8W	
JR21	1-216-296-00	METAL GLAZE 0 5% 1/8W	
JR23	1-216-296-00	METAL GLAZE 0 5% 1/8W	
JR24	1-216-296-00	METAL GLAZE 0 5% 1/8W	
JR25	1-216-296-00	METAL GLAZE 0 5% 1/8W	
JR29	1-216-296-00	METAL GLAZE 0 5% 1/8W	
JR30	1-216-295-00	METAL GLAZE 0 5% 1/10W	
JR33	1-216-295-00	METAL GLAZE 0 5% 1/10W	
JR38	1-216-296-00	METAL GLAZE 0 5% 1/8W	
JR39	1-216-296-00	METAL GLAZE 0 5% 1/8W	
JR40	1-216-296-00	METAL GLAZE 0 5% 1/8W	
JR41	1-216-295-00	METAL GLAZE 0 5% 1/10W	
JR42	1-216-295-00	METAL GLAZE 0 5% 1/10W	
JR101	1-216-295-00	METAL GLAZE 0 5% 1/10W	
R101	1-216-075-00	METAL GLAZE 12K 5% 1/10W	

REF.NO.	PART NO.	DESCRIPTION	REMARK
R102	1-216-045-00	METAL GLAZE 680 5% 1/10W	
R103	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W	
R104	1-216-051-00	METAL GLAZE 1.2K 5% 1/10W	
R105	1-216-043-00	METAL GLAZE 560 5% 1/10W	
R106	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R107	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
R108	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
R110	1-216-041-00	METAL GLAZE 470 5% 1/10W	
R112	1-216-045-00	METAL GLAZE 680 5% 1/10W	
R113	1-216-031-00	METAL GLAZE 180 5% 1/10W	
R114	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R115	1-216-031-00	METAL GLAZE 180 5% 1/10W	
R116	1-216-101-00	METAL GLAZE 150K 5% 1/10W	
R117	1-216-097-00	METAL GLAZE 100K 5% 1/10W	
R118	1-216-117-00	METAL GLAZE 680K 5% 1/10W	
R119	1-216-240-00	METAL GLAZE 56K 5% 1/8W	
R120	1-216-075-00	METAL GLAZE 12K 5% 1/10W	
R121	1-216-053-00	METAL GLAZE 1.5K 5% 1/10W	
R122	1-216-061-00	METAL GLAZE 3.3K 5% 1/10W	
R123	1-216-061-00	METAL GLAZE 3.3K 5% 1/10W	
R130	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R131	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R132	1-216-069-00	METAL GLAZE 6.8K 5% 1/10W	
R133	1-216-061-00	METAL GLAZE 3.3K 5% 1/10W	
R134	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R135	1-216-198-00	METAL GLAZE 1K 5% 1/8W	
R153	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R159	1-216-107-00	METAL GLAZE 270K 5% 1/10W	
R160	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R161	1-216-100-00	METAL CHIP 130K 0.50% 1/10W	
R162	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R163	1-216-113-00	METAL GLAZE 470K 5% 1/10W	
R164	1-216-113-00	METAL GLAZE 470K 5% 1/10W	
R165	1-216-081-00	METAL GLAZE 22K 5% 1/10W	
R166	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R167	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R168	1-216-113-00	METAL GLAZE 470K 5% 1/10W	
R169	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R175	1-216-083-00	METAL GLAZE 27K 5% 1/10W	
R176	1-216-075-00	METAL GLAZE 12K 5% 1/10W	
R177	1-216-095-00	METAL GLAZE 82K 5% 1/10W	
R178	1-216-059-00	METAL GLAZE 2.7K 5% 1/10W	
R179	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W	
R181	1-216-037-00	METAL GLAZE 330 5% 1/10W	

<VARIABLE RESISTOR>

REF.NO.	PART NO.	DESCRIPTION	REMARK
RV1	1-241-121-11	RES, ADJ, CARBON 4.7K	

<TRANSFORMER>

REF.NO.	PART NO.	DESCRIPTION	REMARK
T4	1-416-017-11	COIL, IF	
T5	**1-416-018-21**	COIL, IF	

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1-466-735-11 IF BLOCK (IFH-389F) (KV-S2911B)
****

<CAPACITOR>

REF.NO.	PART NO.	DESCRIPTION	REMARK
C1	1-163-017-00	CERAMIC CHIP 0.0047MF 10% 50V	
C2	1-164-232-11	CERAMIC CHIP 0.01MF 10% 50V	
C3	1-124-903-11	ELECT 1MF 20% 50V	
C4	1-164-232-11	CERAMIC CHIP 0.01MF 10% 50V	
C5	1-164-232-11	CERAMIC CHIP 0.01MF 10% 50V	
C6	1-163-017-00	CERAMIC CHIP 0.0047MF 10% 50V	
C7	1-164-232-11	CERAMIC CHIP 0.01MF 10% 50V	
C8	1-163-017-00	CERAMIC CHIP 0.0047MF 10% 50V	
C9	1-126-233-11	ELECT 22MF 20% 25V	
C10	1-164-232-11	CERAMIC CHIP 0.01MF 10% 50V	
C11	1-124-477-11	ELECT 47MF 20% 16V	
C13	1-163-059-00	CERAMIC CHIP 0.01MF 10% 50V	
C14	1-124-477-11	ELECT 47MF 20% 16V	
C15	1-124-903-11	ELECT 1MF 20% 50V	
C16	1-163-061-00	CERAMIC CHIP 0.015MF 10% 50V	
C17	1-162-638-11	CERAMIC CHIP 1MF 16V	
C18	1-162-638-11	CERAMIC CHIP 1MF 16V	
C19	1-163-141-00	CERAMIC CHIP 0.001MF 5% 50V	
C20	1-124-902-00	ELECT 0.47MF 20% 50V	
C21	1-124-903-11	ELECT 1MF 20% 50V	
C22	1-164-232-11	CERAMIC CHIP 0.01MF 10% 50V	
C23	1-124-902-00	ELECT 0.47MF 20% 50V	
C24	1-164-506-11	CERAMIC CHIP 4.7MF 16V	
C25	1-124-477-11	ELECT 47MF 20% 16V	
C26	1-164-232-11	CERAMIC CHIP 0.01MF 10% 50V	
C27	1-164-232-11	CERAMIC CHIP 0.01MF 10% 50V	
C28	1-124-477-11	ELECT 47MF 20% 16V	
C33	1-124-907-11	ELECT 10MF 20% 50V	
C34	1-124-907-11	ELECT 10MF 20% 50V	
C35	1-124-925-11	ELECT 2.2MF 20% 50V	
C36	1-124-477-11	ELECT 47MF 20% 16V	
C37	1-164-232-11	CERAMIC CHIP 0.01MF 10% 50V	
C38	1-163-017-00	CERAMIC CHIP 0.0047MF 10% 50V	
C40	1-164-232-11	CERAMIC CHIP 0.01MF 10% 50V	
C71	1-124-477-11	ELECT 47MF 20% 16V	
C72	1-164-232-11	CERAMIC CHIP 0.01MF 10% 50V	
C80	1-124-477-11	ELECT 47MF 20% 16V	
C83	1-124-477-11	ELECT 47MF 20% 16V	
C84	1-124-477-11	ELECT 47MF 20% 16V	
C85	1-124-477-11	ELECT 47MF 20% 16V	
C86	1-124-477-11	ELECT 47MF 20% 16V	
C87	1-124-477-11	ELECT 47MF 20% 16V	
C91	1-163-229-11	CERAMIC CHIP 12PF 5% 50V	
C95	1-164-337-11	CERAMIC CHIP 2.2MF 16V	
C101	1-163-017-00	CERAMIC CHIP 0.0047MF 10% 50V	
C102	1-163-017-00	CERAMIC CHIP 0.0047MF 10% 50V	
C104	1-163-017-00	CERAMIC CHIP 0.0047MF 10% 50V	
C105	1-163-017-00	CERAMIC CHIP 0.0047MF 10% 50V	
C106	1-163-017-00	CERAMIC CHIP 0.0047MF 10% 50V	
C121	1-126-176-11	ELECT 220MF 20% 10V	
C122	1-163-119-00	CERAMIC CHIP 120PF 5% 50V	

<FILTER>

REF.NO.	PART NO.	DESCRIPTION	REMARK
CF1	1-527-839-00	FILTER, CERAMIC	
CF2	1-567-569-11	FILTER, CERAMIC	
CF3	1-527-840-00	FILTER, CERAMIC	
CF4	1-567-570-11	FILTER, CERAMIC	
SWF1	1-579-662-11	FILTER, SURFACE WAVE	
SWF3	1-404-711-11	SAWF	
SWF4	1-579-660-11	FILTER, SAWTOOTH WAVE	

<CONNECTOR>

REF.NO.	PART NO.	DESCRIPTION	REMARK
CN1	*1-506-913-11	PIN, CONNECTOR 10P	
CN2	*1-506-913-11	PIN, CONNECTOR 10P	

IF

<TRIMMER>

REF.NO.	PART NO.	DESCRIPTION	REMARK
CT1	1-404-801-11	TRAP, CERAMIC	
CT2	1-409-429-11	TRAP, CERAMIC	
CV1	1-141-245-00	CAP, TRIMMER	
CV2	1-141-245-00	CAP, TRIMMER	
CV3	1-141-304-21	TRIMMER, CERAMIC	

<DIODE>

REF.NO.	PART NO.	DESCRIPTION	REMARK
D7	8-719-421-57	DIODE MA73-TX	
D8	8-719-421-57	DIODE MA73-TX	
D9	8-719-421-57	DIODE MA73-TX	

<IC>

REF.NO.	PART NO.	DESCRIPTION	REMARK
IC1	8-759-070-75	IC M52312SP	
IC2	8-759-070-71	IC TDA9820	
IC3	8-759-979-62	IC PCF8574	

<COIL>

REF.NO.	PART NO.	DESCRIPTION	REMARK
L1	1-408-419-00	INDUCTOR 68UH	
L2	1-408-419-00	INDUCTOR 68UH	
L3	1-408-407-00	INDUCTOR 6.8UH	
L4	1-408-419-00	INDUCTOR 68UH	
L5	1-408-419-00	INDUCTOR 68UH	
L7	1-408-406-00	INDUCTOR 5.6UH	
L9	1-408-419-00	INDUCTOR 68UH	
L71	1-408-419-00	INDUCTOR 68UH	
L101	1-408-399-00	INDUCTOR 1.5UH	
L121	1-408-407-00	INDUCTOR 6.8UH	

<TRANSISTOR>

REF.NO.	PART NO.	DESCRIPTION	REMARK
Q1	8-729-901-59	TRANSISTOR BF199	
Q4	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q5	8-729-115-10	TRANSISTOR 2SK105A-10	
Q6	8-729-900-52	TRANSISTOR DTC114YK	
Q7	8-729-216-22	TRANSISTOR 2SA1162-G	
Q8	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q10	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q11	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q12	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q13	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q14	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q15	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q16	8-729-216-22	TRANSISTOR 2SA1162-G	
Q101	8-729-104-80	TRANSISTOR 2SC3355	
Q121	8-729-120-28	TRANSISTOR 2SC1623-L5L6	

<RESISTOR>

REF.NO.	PART NO.	DESCRIPTION	REMARK
JR2	1-216-295-00	METAL GLAZE 0 5% 1/10W	
JR3	1-216-296-00	METAL GLAZE 0 5% 1/8W	
JR5	1-216-296-00	METAL GLAZE 0 5% 1/8W	
R1	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R2	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
R3	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
R4	1-216-041-00	METAL GLAZE 470 5% 1/10W	
R5	1-216-021-00	METAL GLAZE 68 5% 1/10W	
R6	1-216-055-00	METAL GLAZE 1.8K 5% 1/10W	
R8	1-216-051-00	METAL GLAZE 1.2K 5% 1/10W	
R9	1-216-069-00	METAL GLAZE 6.8K 5% 1/10W	
R10	1-216-071-00	METAL GLAZE 8.2K 5% 1/10W	
R11	1-216-059-00	METAL GLAZE 2.7K 5% 1/10W	
R24	1-216-280-00	METAL GLAZE 2.7M 5% 1/8W	
R25	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W	
R26	1-216-061-00	METAL GLAZE 3.3K 5% 1/10W	
R27	1-216-266-00	METAL GLAZE 680K 5% 1/8W	
R28	1-216-075-00	METAL GLAZE 12K 5% 1/10W	
R29	1-216-035-00	METAL GLAZE 270 5% 1/10W	
R30	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R31	1-216-017-00	METAL GLAZE 47 5% 1/10W	
R32	1-216-043-00	METAL GLAZE 560 5% 1/10W	
R33	1-216-037-00	METAL GLAZE 330 5% 1/10W	
R34	1-216-252-00	METAL GLAZE 180K 5% 1/8W	
R35	1-216-035-00	METAL GLAZE 270 5% 1/10W	
R36	1-216-029-00	METAL GLAZE 150 5% 1/10W	
R37	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R38	1-216-099-00	METAL GLAZE 120K 5% 1/10W	
R39	1-216-089-00	METAL GLAZE 47K 5% 1/10W	
R40	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R42	1-216-061-00	METAL GLAZE 3.3K 5% 1/10W	
R43	1-216-067-00	METAL GLAZE 5.6K 5% 1/10W	
R44	1-216-027-00	METAL GLAZE 120 5% 1/10W	
R45	1-216-041-00	METAL GLAZE 470 5% 1/10W	
R46	1-216-031-00	METAL GLAZE 180 5% 1/10W	
R47	1-216-075-00	METAL GLAZE 12K 5% 1/10W	
R48	1-216-081-00	METAL GLAZE 22K 5% 1/10W	
R49	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R53	1-216-083-00	METAL GLAZE 27K 5% 1/10W	
R54	1-216-043-00	METAL GLAZE 560 5% 1/10W	
R55	1-216-043-00	METAL GLAZE 560 5% 1/10W	
R56	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
R57	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
R58	1-216-041-00	METAL GLAZE 470 5% 1/10W	
R59	1-216-043-00	METAL GLAZE 560 5% 1/10W	
R60	1-216-043-00	METAL GLAZE 560 5% 1/10W	
R61	1-216-295-00	METAL GLAZE 0 5% 1/10W	
R63	1-216-043-00	METAL GLAZE 560 5% 1/10W	
R71	1-216-079-00	METAL GLAZE 18K 5% 1/10W	
R72	1-216-079-00	METAL GLAZE 18K 5% 1/10W	
R73	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R74	1-216-079-00	METAL GLAZE 18K 5% 1/10W	
R75	1-216-079-00	METAL GLAZE 18K 5% 1/10W	
R76	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R77	1-216-174-00	METAL GLAZE 100 5% 1/8W	
R81	1-216-095-00	METAL GLAZE 82K 5% 1/10W	
R82	1-216-121-00	METAL GLAZE 1M 5% 1/10W	
R83	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R84	1-216-085-00	METAL GLAZE 33K 5% 1/10W	
R85	1-216-085-00	METAL GLAZE 33K 5% 1/10W	
R86	1-216-689-11	METAL GLAZE 39K 5% 1/10W	
R87	1-216-095-00	METAL GLAZE 82K 5% 1/10W	
R88	1-216-095-00	METAL GLAZE 82K 5% 1/10W	
R89	1-216-095-00	METAL GLAZE 82K 5% 1/10W	
R90	1-216-075-00	METAL GLAZE 12K 5% 1/10W	
R91	1-216-295-00	METAL GLAZE 0 5% 1/10W	
R92	1-216-075-00	METAL GLAZE 12K 5% 1/10W	
R93	1-216-075-00	METAL GLAZE 12K 5% 1/10W	
R94	1-216-059-00	METAL GLAZE 2.7K 5% 1/10W	
R95	1-216-059-00	METAL GLAZE 2.7K 5% 1/10W	
R96	1-216-059-00	METAL GLAZE 2.7K 5% 1/10W	
R97	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W	
R98	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W	
R99	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W	
R100	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	

REF.NO.	PART NO.	DESCRIPTION	REMARK
R102	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
R103	1-216-063-00	METAL GLAZE 3.9K 5% 1/10W	
R104	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R105	1-216-033-00	METAL GLAZE 220 5% 1/10W	
R121	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R122	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
R123	1-216-041-00	METAL GLAZE 470 5% 1/10W	
R124	1-216-041-00	METAL GLAZE 470 5% 1/10W	
R125	1-216-041-00	METAL GLAZE 470 5% 1/10W	
R301	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R302	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R303	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R304	1-216-037-00	METAL GLAZE 330 5% 1/10W	
R305	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R306	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R307	1-216-037-00	METAL GLAZE 330 5% 1/10W	
R308	1-216-037-00	METAL GLAZE 330 5% 1/10W	

<VARIABLE RESISTOR>

REF.NO.	PART NO.	DESCRIPTION	REMARK
RV2	1-241-120-11	RES, ADJ, CARBON 2.2K	

<TRANSFORMER>

REF.NO.	PART NO.	DESCRIPTION	REMARK
T1	1-404-806-21	COIL	
T3	1-416-012-11	COIL	
T4	1-416-012-11	COIL	

<CRYSTAL>

REF.NO.	PART NO.	DESCRIPTION	REMARK
X1	1-579-648-21	VIBRATOR, CERAMIC	

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*A-1331-223-A C BOARD, COMPLETE
****

*4-341-752-01 EYELET (EY1~EY4,EY6~EY12)

<CAPACITOR>

REF.NO.	PART NO.	DESCRIPTION	REMARK
C701	1-162-114-00	CERAMIC 0.0047MF 2KV	
C703	1-123-946-00	ELECT 4.7MF 20% 250V	
C705	1-162-116-00	CERAMIC 680PF 10% 2KV	
C708	1-163-197-00	CERAMIC CHIP 470PF 10% 50V	
C709	1-163-005-11	CERAMIC CHIP 470PF 10% 50V	
C710	1-163-005-11	CERAMIC CHIP 470PF 10% 50V	
C711	1-101-880-00	CERAMIC 47PF 5% 50V	
C712	1-163-121-00	CERAMIC CHIP 150PF 5% 50V	
C713	1-163-121-00	CERAMIC CHIP 150PF 5% 50V	
C714	1-163-121-00	CERAMIC CHIP 150PF 5% 50V	
C716	1-124-122-11	ELECT 100MF 20% 50V	

<CONNECTOR>

REF.NO.	PART NO.	DESCRIPTION	REMARK
CN0002	*1-508-786-00	PIN, CONNECTOR (5MM PITCH) 2P	
CN0403	*1-564-511-11	PLUG, CONNECTOR 8P	
CN0421	*1-508-768-00	PIN, CONNECTOR (5MM PITCH) 6P	

<DIODE>

REF.NO.	PART NO.	DESCRIPTION	REMARK
D701	8-719-911-19	DIODE 1SS119	
D702	8-719-911-19	DIODE 1SS119	
D703	8-719-911-19	DIODE 1SS119	
D704	8-719-911-19	DIODE 1SS119	
D705	8-719-911-19	DIODE 1SS119	
D706	8-719-911-19	DIODE 1SS119	
D707	8-719-911-19	DIODE 1SS119	
D708	8-719-911-19	DIODE 1SS119	
D709	8-719-911-19	DIODE 1SS119	
D710	8-719-911-19	DIODE 1SS119	
D713	8-719-911-55	DIODE U05G	

<JACK>

REF.NO.	PART NO.	DESCRIPTION	REMARK
J701	1-540-223-11	SOCKET, PICTURE TUBE	

<COIL>

REF.NO.	PART NO.	DESCRIPTION	REMARK
L701	1-410-667-31	INDUCTOR 22UH	
L703	1-408-609-41	INDUCTOR 33UH	
L705	1-408-609-41	INDUCTOR 33UH	
L707	1-408-609-41	INDUCTOR 33UH	

<TRANSISTOR>

REF.NO.	PART NO.	DESCRIPTION	REMARK
Q701	8-729-906-70	TRANSISTOR BF871	
Q702	8-729-906-70	TRANSISTOR BF871	
Q703	8-729-906-70	TRANSISTOR BF871	
Q704	8-729-906-70	TRANSISTOR BF871	
Q705	8-729-906-70	TRANSISTOR BF871	
Q706	8-729-906-70	TRANSISTOR BF871	
Q707	8-729-200-17	TRANSISTOR 2SA1091-O	
Q708	8-729-200-17	TRANSISTOR 2SA1091-O	
Q709	8-729-200-17	TRANSISTOR 2SA1091-O	
Q710	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q711	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q712	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q713	8-729-216-22	TRANSISTOR 2SA1162-G	
Q714	8-729-255-12	TRANSISTOR 2SC2551-O	

<RESISTOR>

REF.NO.	PART NO.	DESCRIPTION	REMARK
JR701	1-216-296-00	METAL GLAZE 0 5% 1/8W	
JR703	1-216-296-00	METAL GLAZE 0 5% 1/8W	
R701	1-202-848-00	SOLID 680K 10% 1/2W	
R702	1-202-838-00	SOLID 100K 20% 1/2W	
R703	1-202-815-11	SOLID 47K 20% 1/2W	
R704	1-202-842-11	SOLID 220K 10% 1/2W	
R705	1-216-367-11	METAL OXIDE 0.68 5% 2W	F
R710	1-215-899-11	METAL OXIDE 15K 5% 2W	F
R711	1-202-820-11	SOLID 1.5K 20% 1/2W	
R712	1-215-899-11	METAL OXIDE 15K 5% 2W	F
R713	1-202-820-11	SOLID 1.5K 20% 1/2W	
R714	1-215-899-11	METAL OXIDE 15K 5% 2W	F
R715	1-202-820-11	SOLID 1.5K 20% 1/2W	
R716	1-247-700-11	CARBON 100 5% 1/4W	F
R717	1-249-405-11	CARBON 100 5% 1/4W	F
R718	1-247-700-11	CARBON 100 5% 1/4W	F
R720	1-249-417-11	CARBON 1K 5% 1/4W	F
R722	1-247-713-11	CARBON 1K 5% 1/4W	F
R724	1-249-417-11	CARBON 1K 5% 1/4W	F
R725	1-216-067-00	METAL GLAZE 5.6K 5% 1/10W	
R726	1-216-067-00	METAL GLAZE 5.6K 5% 1/10W	
R727	1-216-067-00	METAL GLAZE 5.6K 5% 1/10W	
R728	1-216-037-00	METAL GLAZE 330 5% 1/10W	
R729	1-216-037-00	METAL GLAZE 330 5% 1/10W	
R730	1-216-037-00	METAL GLAZE 330 5% 1/10W	

C D1

REF.NO.	PART NO.	DESCRIPTION				REMARK
R731	1-216-017-00	METAL GLAZE	47	5%	1/10W	
R732	1-216-017-00	METAL GLAZE	47	5%	1/10W	
R733	1-216-017-00	METAL GLAZE	47	5%	1/10W	
R734	1-202-549-00	SOLID	100	20%	1/2W	
R735	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R738	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R739	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R740	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R741	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
R742	1-216-295-00	METAL GLAZE	0	5%	1/10W	
R743	1-249-434-11	CARBON	27K	5%	1/4W	
R747	1-216-488-11	METAL OXIDE	18K	5%	3W	F
R749	1-215-926-00	METAL OXIDE	33K	5%	3W	F
R751	1-216-489-11	METAL OXIDE	27K	5%	3W	F
R753	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R758	1-249-419-11	CARBON	1.5K	5%	1/4W	
R759	1-249-419-11	CARBON	1.5K	5%	1/4W	
R760	1-249-419-11	CARBON	1.5K	5%	1/4W	

<VARIABLE RESISTOR>

REF.NO.	PART NO.	DESCRIPTION
RV701	1-230-641-11	RES, ADJ, METAL GLAZE 2.2M
RV702	1-241-714-11	RES, ADJ, METAL FILM 110M

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*A-1341-570-A D1 BOARD, COMPLETE
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PART NO.	DESCRIPTION
*4-341-751-01	EYELET (EY1,EY2)
*4-341-752-01	EYELET (EY3,EY4)
4-382-854-11	SCREW (M3X10), P, SW (+)

<CAPACITOR>

REF.NO.	PART NO.	DESCRIPTION			
C1601	1-124-903-11	ELECT	1MF	20%	50V
C1602	1-126-320-11	ELECT	10MF	20%	16V
C1603	1-137-134-91	FILM	0.22MF	5%	63V
C1605	1-124-907-11	ELECT	10MF	20%	50V
C1606	1-124-910-11	ELECT	47MF	20%	50V
C1607	1-124-902-00	ELECT	0.47MF	20%	50V
C1608	1-102-112-00	CERAMIC	330PF	10%	50V
C1610	1-136-103-00	FILM	0.1MF	5%	200V
C1611	1-124-903-11	ELECT	1MF	20%	50V
C1614	1-137-127-91	FILM	0.015MF	5%	63V
C1615	1-124-903-11	ELECT	1MF	20%	50V
C1617	1-137-038-91	FILM	0.001MF	10%	400V
C1618	1-102-074-00	CERAMIC	0.001MF	10%	50V
C1620	1-136-601-11	FILM	0.01MF	5%	630V
C1622	1-124-557-11	ELECT	1000MF	20%	25V
C1623	1-137-038-91	FILM	0.001MF	10%	400V
C1625	1-126-320-11	ELECT	10MF	20%	16V
C1626	1-137-132-91	FILM	0.1MF	5%	63V
C1627	1-137-136-91	FILM	0.47MF	5%	63V
C1628	1-124-907-11	ELECT	10MF	20%	50V
C1629	1-136-557-11	FILM	0.0033MF	10%	630V
C1630	1-102-244-00	CERAMIC	220PF	10%	500V
C1631	1-124-907-11	ELECT	10MF	20%	50V
C1632	1-124-907-11	ELECT	10MF	20%	50V
C1633	1-124-907-11	ELECT	10MF	20%	50V
C1634	1-137-043-11	FILM	0.0047MF	10%	400V
C1635	1-129-718-00	FILM	0.022MF	10%	630V
C1637	1-137-122-91	FILM	0.0022MF	5%	63V
C1680	1-124-797-11	ELECT	0.47MF	20%	160V
C1681	1-129-702-00	FILM	0.001MF	10%	630V
C1684	1-137-122-91	FILM	0.0022MF	5%	63V
C1690	1-124-046-00	ELECT	10MF	20%	160V
C1801	1-124-910-11	ELECT	47MF	20%	50V
C1802	1-124-910-11	ELECT	47MF	20%	50V
C1803	1-137-126-91	FILM	0.01MF	5%	63V
C1804	1-137-126-91	FILM	0.01MF	5%	63V
C1805	1-137-132-91	FILM	0.1MF	5%	63V
C1806	1-137-132-91	FILM	0.1MF	5%	63V
C1807	1-124-360-00	ELECT	1000MF	20%	16V
C1809	1-136-104-00	FILM	0.16MF	5%	200V
C1810	1-137-028-11	FILM	1MF	10%	63V
C1811	1-162-318-11	CERAMIC	0.001MF	10%	500V
C1812	1-124-927-11	ELECT	4.7MF	20%	50V
C1813	1-137-130-91	FILM	0.047MF	5%	63V
C1814	1-124-907-11	ELECT	10MF	20%	50V
C1815	1-124-907-11	ELECT	10MF	20%	50V
C1816	1-126-233-11	ELECT	22MF	20%	50V
C1817	1-124-927-11	ELECT	4.7MF	20%	50V
C1818	1-124-910-11	ELECT	47MF	20%	50V
C1819	1-137-132-91	FILM	0.1MF	5%	63V
C1820	1-126-103-11	ELECT	470MF	20%	16V
C1822	1-137-043-11	FILM	0.0047MF	10%	400V

<CONNECTOR>

REF.NO.	PART NO.	DESCRIPTION
CN0607	*1-568-879-51	PIN, CONNECTOR 4P
CN0622	*1-564-512-11	PLUG, CONNECTOR 9P
CN0630	*1-568-878-51	PIN, CONNECTOR 3P
CY1	*1-508-765-00	PIN, CONNECTOR (5MM PITCH) 3P

<DIODE>

REF.NO.	PART NO.	DESCRIPTION
D1601	8-719-911-19	DIODE 1SS119
D1602	8-719-109-97	DIODE RD6.8ES-B2
D1603	8-719-979-85	DIODE EGP20G
D1605	8-719-911-19	DIODE 1SS119
D1606	8-719-981-01	DIODE ERA81-004
D1607	8-719-911-19	DIODE 1SS119
D1608	8-719-981-01	DIODE ERA81-004
D1611	8-719-911-19	DIODE 1SS119
D1612	8-719-970-87	DIODE ERA38-06
D1613	8-719-109-89	DIODE RD5.6ES-B2
D1614	8-719-911-19	DIODE 1SS119
D1680	8-719-970-87	DIODE ERA38-06
D1801	8-719-981-01	DIODE ERA81-004
D1802	8-719-911-19	DIODE 1SS119
D1803	8-719-911-19	DIODE 1SS119
D1804	8-719-911-19	DIODE 1SS119
D1805	8-719-801-35	THYRISTOR SHOR3D42
D1806	8-719-981-01	DIODE ERA81-004
D1807	8-719-981-01	DIODE ERA81-004
D1808	8-719-911-19	DIODE 1SS119
D1809	8-719-911-19	DIODE 1SS119
D1810	8-719-911-19	DIODE 1SS119
D1811	8-719-300-33	DIODE RU-3AM
D1812	8-719-911-19	DIODE 1SS119
D1813	8-719-911-19	DIODE 1SS119

<IC>

REF.NO.	PART NO.	DESCRIPTION
IC1601	8-759-135-80	IC UPC358C
IC1603	8-759-987-16	IC LM393P
IC1604	8-759-987-16	IC LM393P
IC1801	8-749-920-58	IC SI-3090CA
	*4-341-752-01	EYELET; IC1801

REF.NO.	PART NO.	DESCRIPTION	REMARK
IC1802	8-752-052-88	IC CXA1526P	
IC1803	8-759-135-80	IC UPC358C	
		<COIL>	
L1601	1-410-093-11	INDUCTOR 33MMH	
L1602	1-459-075-00	COIL,DYNAMIC CONVERSION CHOKE	
L1607	1-459-148-00	COIL	
	*4-341-751-01	EYELET; L1607	
L1801	1-459-592-11	COIL (WITH CORE) (PMC)	
L1802	1-459-087-00	COIL,HCC DUST CORE 3.9MMH	
		<TRANSISTOR>	
Q1601	8-729-173-38	TRANSISTOR 2SA733-K	
Q1602	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q1603	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q1604	8-729-173-38	TRANSISTOR 2SA733-K	
Q1605	8-729-173-38	TRANSISTOR 2SA733-K	
Q1606	8-729-119-80	TRANSISTOR 2SC2688-LK	
Q1607	8-729-119-80	TRANSISTOR 2SC2688-LK	
Q1608	8-729-300-80	TRANSISTOR 2SB860	
Q1609	8-729-140-96	TRANSISTOR 2SD774-34	
Q1610	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q1611	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q1612	8-729-173-38	TRANSISTOR 2SA733-K	
Q1613	8-729-011-02	TRANSISTOR 2SK1917	
Q1614	8-729-173-38	TRANSISTOR 2SA733-K	
Q1615	8-729-011-06	TRANSISTOR 2SC3840K	
Q1616	8-729-173-38	TRANSISTOR 2SA733-K	
Q1617	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q1618	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q1802	8-729-173-38	TRANSISTOR 2SA733-K	
Q1803	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q1804	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q1805	8-729-140-97	TRANSISTOR 2SB734-34	
Q1806	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q1807	8-729-140-97	TRANSISTOR 2SB734-34	
Q1808	8-729-173-38	TRANSISTOR 2SA733-K	
Q1809	8-729-209-15	TRANSISTOR 2SD2012	
Q1810	8-729-140-96	TRANSISTOR 2SD774-34	
Q1811	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q1812	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q1813	8-729-119-78	TRANSISTOR 2SC2785-HFE	
		<RESISTOR>	
JR1	1-216-295-00	METAL GLAZE 0 5% 1/10W	
JR2	1-216-295-00	METAL GLAZE 0 5% 1/10W	
R1601	1-216-061-00	METAL GLAZE 3.3K 5% 1/10W	
R1602	1-249-433-11	CARBON 22K 5% 1/4W	
R1603	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R1604	1-249-429-11	CARBON 10K 5% 1/4W	
R1605	1-216-081-00	METAL GLAZE 22K 5% 1/10W	
R1606	1-249-425-11	CARBON 4.7K 5% 1/4W	
R1607	1-249-436-11	CARBON 39K 5% 1/4W	
R1608	1-216-091-00	METAL GLAZE 56K 5% 1/10W	
R1609	1-216-082-00	METAL GLAZE 24K 5% 1/10W	
R1610	1-216-689-11	METAL GLAZE 39K 5% 1/10W	
R1611	1-216-113-00	METAL GLAZE 470K 5% 1/10W	
R1612	1-249-425-11	CARBON 4.7K 5% 1/4W	
R1613	1-249-425-11	CARBON 4.7K 5% 1/4W	
R1615	1-249-427-11	CARBON 6.8K 5% 1/4W	
R1616	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W	
R1617	1-216-081-00	METAL GLAZE 22K 5% 1/10W	
R1619	1-216-085-00	METAL GLAZE 33K 5% 1/10W	
R1620	1-249-419-11	CARBON 1.5K 5% 1/4W	
R1621	1-215-876-71	METAL OXIDE 15K 5% 1W	F
R1622	1-215-870-71	METAL OXIDE 1.5K 5% 1W	F
R1623	1-249-429-11	CARBON 10K 5% 1/4W	
R1624	1-216-061-00	METAL GLAZE 3.3K 5% 1/10W	
R1625	1-249-430-11	CARBON 12K 5% 1/4W	
R1626	1-249-409-11	CARBON 220 5% 1/4W	
R1627	1-249-415-11	CARBON 680 5% 1/4W	
R1628	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W	
R1629	1-249-429-11	CARBON 10K 5% 1/4W	
R1630	1-249-433-11	CARBON 22K 5% 1/4W	
R1631	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W	
R1632	1-249-431-11	CARBON 15K 5% 1/4W	
R1633	1-249-421-11	CARBON 2.2K 5% 1/4W	
R1634	1-216-093-00	METAL GLAZE 68K 5% 1/10W	
R1635	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R1636	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R1637	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W	
R1638	1-249-405-11	CARBON 100 5% 1/4W	
R1639	1-249-405-11	CARBON 100 5% 1/4W	F
R1640	1-249-405-11	CARBON 100 5% 1/4W	F
R1641	1-249-405-11	CARBON 100 5% 1/4W	
R1644	1-216-081-00	METAL GLAZE 22K 5% 1/10W	
R1645	1-216-113-00	METAL GLAZE 470K 5% 1/10W	
R1646	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
R1647	1-216-067-00	METAL GLAZE 5.6K 5% 1/10W	
R1648	1-249-435-11	CARBON 33K 5% 1/4W	
R1650	1-249-425-11	CARBON 4.7K 5% 1/4W	
R1652	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R1653	1-216-107-00	METAL GLAZE 270K 5% 1/10W	
R1654	1-247-889-00	CARBON 270K 5% 1/4W	
R1655	1-215-876-71	METAL OXIDE 15K 5% 1W	F
R1656	1-249-413-11	CARBON 470 5% 1/4W	
R1657	1-249-393-11	CARBON 10 5% 1/4W	F
R1658	1-249-437-11	CARBON 47K 5% 1/4W	
R1659	1-216-295-00	METAL GLAZE 0 5% 1/10W	
R1660	1-216-089-00	METAL GLAZE 47K 5% 1/10W	
R1661	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R1662	1-216-097-00	METAL GLAZE 100K 5% 1/10W	
R1664	1-249-412-11	CARBON 390 5% 1/4W	F
R1665	1-216-459-00	METAL OXIDE 2.7K 5% 2W	F
R1666	1-216-459-00	METAL OXIDE 2.7K 5% 2W	F
R1671	1-216-081-00	METAL GLAZE 22K 5% 1/10W	
R1680	1-249-417-11	CARBON 1K 5% 1/4W	
R1681	1-249-429-11	CARBON 10K 5% 1/4W	
R1682	1-249-433-11	CARBON 22K 5% 1/4W	
R1683	1-249-411-11	CARBON 330 5% 1/4W	
R1684	1-249-436-11	CARBON 39K 5% 1/4W	
R1685	1-249-441-11	CARBON 100K 5% 1/4W	
R1686	1-249-441-11	CARBON 100K 5% 1/4W	
R1687	1-249-441-11	CARBON 100K 5% 1/4W	
R1801	1-249-409-11	CARBON 220 5% 1/4W	
R1802	1-249-409-11	CARBON 220 5% 1/4W	
R1804	1-247-891-00	CARBON 330K 5% 1/4W	
R1806	1-216-103-00	METAL GLAZE 180K 5% 1/10W	
R1807	1-247-891-00	CARBON 330K 5% 1/4W	
R1808	1-215-461-00	METAL 47K 1% 1/4W	
R1809	1-249-423-11	CARBON 3.3K 5% 1/4W	
R1810	1-249-413-11	CARBON 470 5% 1/4W	
R1811	1-216-083-00	METAL GLAZE 27K 5% 1/10W	
R1812	1-216-091-00	METAL GLAZE 56K 5% 1/10W	

REF.NO.	PART NO.	DESCRIPTION				REMARK
R1813	1-249-417-11	CARBON	1K	5%	1/4W	
R1815	1-216-069-00	METAL GLAZE	6.8K	5%	1/10W	
R1816	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R1817	1-216-059-00	METAL GLAZE	2.7K	5%	1/10W	
R1818	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R1819	1-216-079-00	METAL GLAZE	18K	5%	1/10W	
R1820	1-249-417-11	CARBON	1K	5%	1/4W	
R1821	1-216-379-11	METAL OXIDE	6.8	5%	2W	F
R1822	1-249-423-11	CARBON	3.3K	5%	1/4W	
R1824	1-249-417-11	CARBON	1K	5%	1/4W	F
R1825	1-215-857-71	METAL OXIDE	10	5%	1W	F
R1826	1-249-404-00	CARBON	82	5%	1/4W	
R1827	1-215-875-71	METAL OXIDE	10K	5%	1W	F
R1828	1-249-441-11	CARBON	100K	5%	1/4W	
R1829	1-249-414-11	CARBON	560	5%	1/4W	
R1830	1-249-411-11	CARBON	330	5%	1/4W	
R1831	1-249-426-11	CARBON	5.6K	5%	1/4W	
R1832	1-215-864-71	METAL OXIDE	150	5%	1W	F
R1833	1-249-421-11	CARBON	2.2K	5%	1/4W	
R1834	1-216-091-00	METAL GLAZE	56K	5%	1/10W	
R1835	1-249-393-11	CARBON	10	5%	1/4W	
R1836	1-249-435-11	CARBON	33K	5%	1/4W	
R1837	1-249-435-11	CARBON	33K	5%	1/4W	
R1838	1-216-379-11	METAL OXIDE	6.8	5%	2W	F
R1839	1-249-410-11	CARBON	270	5%	1/4W	
R1840	1-249-429-11	CARBON	10K	5%	1/4W	
R1841	1-249-437-11	CARBON	47K	5%	1/4W	
R1842	1-249-429-11	CARBON	10K	5%	1/4W	
R1843	1-249-421-11	CARBON	2.2K	5%	1/4W	
R1846	1-249-429-11	CARBON	10K	5%	1/4W	
R1847	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R1848	1-249-429-11	CARBON	10K	5%	1/4W	
R1849	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	

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*A-1341-571-A D2 BOARD, COMPLETE
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*4-341-752-01 EYELET (EY990~EY993)

<CAPACITOR>

REF.NO.	PART NO.	DESCRIPTION			
C1851	1-124-478-11	ELECT	100MF	20%	25V
C1852	1-124-478-11	ELECT	100MF	20%	25V
C1853	1-130-487-00	MYLAR	0.022MF	5%	50V
C1854	1-102-973-00	CERAMIC	100PF	5%	50V
C1855	1-130-471-00	FILM	0.001MF	5%	50V
C1856	1-137-128-91	FILM	0.022MF	5%	63V
C1857	1-137-120-91	FILM	0.001MF	5%	63V
C1858	1-102-228-00	CERAMIC	470PF	10%	500V
C1859	1-124-798-11	ELECT	1MF	20%	160V
C1860	1-137-132-91	FILM	0.1MF	5%	63V
C1861	1-124-798-11	ELECT	1MF	20%	160V
C1862	1-136-104-00	FILM	0.16MF	5%	200V
C1863	1-129-765-00	FILM	0.047MF	10%	200V

<CONNECTOR>

CN1823*1-573-299-11 CONNECTOR, BOARD TO BOARD 10P

<DIODE>

REF.NO.	PART NO.	DESCRIPTION
D1851	8-719-911-19	DIODE 1SS119
D1852	8-719-911-19	DIODE 1SS119
D1853	8-719-300-33	DIODE RU-3AM
D1854	8-719-300-33	DIODE RU-3AM
D1855	8-719-300-33	DIODE RU-3AM

<IC>

REF.NO.	PART NO.	DESCRIPTION
IC1851	8-759-987-16	IC LM393P
IC1852	8-759-987-16	IC LM393P
IC1853	8-759-708-09	IC NJM78L09A

<COIL>

L1851 1-460-200-11 COIL (WITH CORE)

<TRANSISTOR>

REF.NO.	PART NO.	DESCRIPTION
Q1851	8-729-012-26	TRANSISTOR IRF540Y
Q1852	8-729-012-26	TRANSISTOR IRF540Y
Q1853	8-729-931-45	TRANSISTOR IRF614

<RESISTOR>

REF.NO.	PART NO.	DESCRIPTION				REMARK
R1851	1-249-435-11	CARBON	33K	5%	1/4W	
R1852	1-249-417-11	CARBON	1K	5%	1/4W	
R1853	1-247-887-00	CARBON	220K	5%	1/4W	
R1854	1-249-437-11	CARBON	47K	5%	1/4W	
R1855	1-247-895-00	CARBON	470K	5%	1/4W	
R1856	1-249-427-11	CARBON	6.8K	5%	1/4W	
R1857	1-249-423-11	CARBON	3.3K	5%	1/4W	
R1858	1-249-426-11	CARBON	5.6K	5%	1/4W	
R1859	1-249-433-11	CARBON	22K	5%	1/4W	
R1860	1-249-421-11	CARBON	2.2K	5%	1/4W	
R1861	1-216-463-00	METAL OXIDE	12K	5%	2W	F
R1862	1-215-875-71	METAL OXIDE	10K	5%	1W	F
R1863	1-249-405-11	CARBON	100	5%	1/4W	
R1864	1-249-441-11	CARBON	100K	5%	1/4W	
R1865	1-215-869-71	METAL OXIDE	1K	5%	1W	F
R1866	1-249-434-11	CARBON	27K	5%	1/4W	
R1867	1-249-441-11	CARBON	100K	5%	1/4W	
R1868	1-249-406-11	CARBON	120	5%	1/4W	

<VARIABLE RESISTOR>

RV1851 1-241-629-11 RES, ADJ, CARBON 4.7K

<TRANSFORMER>

T1851 1-437-212-11 TRANSFORMER, FERRITE (VPDT)
*4-341-752-01 EYELET; T1851

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*A-1342-189-A VM BOARD, COMPLETE
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4-382-854-11 SCREW (M3X10), P, SW (+)

<CAPACITOR>

REF.NO.	PART NO.	DESCRIPTION			
C1701	1-124-119-00	ELECT	330MF	20%	16V
C1702	1-101-880-00	CERAMIC	47PF	5%	50V
C1703	1-102-115-00	CERAMIC	560PF	10%	50V
C1704	1-161-830-00	CERAMIC	0.0047MF		500V
C1705	1-124-120-11	ELECT	220MF	20%	16V
C1706	1-123-935-00	ELECT	33MF	20%	160V

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifies par une trame et une marque ⚠ sont critiques pour la securite.
Ne les remplacer que par une piece portant le numero specifie.

REF.NO.	PART NO.	DESCRIPTION				REMARK
C1707	1-124-907-11	ELECT	10MF	20%	50V	
C1708	1-101-006-00	CERAMIC	0.047MF		50V	
C1709	1-108-704-11	MYLAR	0.1MF	10%	200V	
C1710	1-137-052-91	FILM	0.047MF	10%	400V	
C1711	1-162-318-11	CERAMIC	0.001MF	10%	500V	
C1712	1-124-799-11	ELECT	2.2MF	20%	160V	
C1713	1-162-318-11	CERAMIC	0.001MF	10%	500V	
C1714	1-137-052-91	FILM	0.047MF	10%	400V	
C1716	1-124-907-11	ELECT	10MF	20%	50V	
C1718	1-124-120-11	ELECT	220MF	20%	16V	
C1719	1-124-907-11	ELECT	10MF	20%	50V	

<CONNECTOR>

CN1819	*1-568-882-81	PIN, CONNECTOR 7P	
CN1830	*1-568-878-51	PIN, CONNECTOR 3P	

<DIODE>

D1701	8-719-911-19	DIODE 1SS119
D1702	8-719-911-19	DIODE 1SS119
D1703	8-719-911-19	DIODE 1SS119
D1704	8-719-982-37	DIODE MTZJ-39C
D1705	8-719-982-37	DIODE MTZJ-39C
D1706	8-719-911-19	DIODE 1SS119
D1707	8-719-911-19	DIODE 1SS119

<COIL>

L1702	1-408-418-00	INDUCTOR	56UH

<TRANSISTOR>

Q1701	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q1702	8-729-173-38	TRANSISTOR 2SA733-K
Q1703	8-729-208-39	TRANSISTOR 2SA1306A-Y
Q1704	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q1705	8-729-208-72	TRANSISTOR 2SC3298B-Y
Q1706	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q1707	8-729-140-96	TRANSISTOR 2SD774-34
Q1708	8-729-907-06	TRANSISTOR BF199-AMMO
Q1709	8-729-255-12	TRANSISTOR 2SC2551-O

<RESISTOR>

R1701	1-249-405-11	CARBON	100	5%	1/4W	
R1702	1-249-420-11	CARBON	1.8K	5%	1/4W	
R1703	1-249-405-11	CARBON	100	5%	1/4W	
R1704	1-249-420-11	CARBON	1.8K	5%	1/4W	
R1705	1-247-736-11	CARBON	56	5%	1/2W	F
R1706	1-249-414-11	CARBON	560	5%	1/4W	F
R1707	1-249-412-11	CARBON	390	5%	1/4W	
R1709	1-249-416-11	CARBON	820	5%	1/4W	
R1710	1-249-385-11	CARBON	2.2	5%	1/4W	F
R1711	1-249-432-11	CARBON	18K	5%	1/4W	
R1712	1-249-435-11	CARBON	33K	5%	1/4W	
R1713	1-249-438-11	CARBON	56K	5%	1/4W	
R1714	1-249-429-11	CARBON	10K	5%	1/4W	
R1715	1-216-476-11	METAL OXIDE	180	5%	3W	F
R1716	1-249-417-11	CARBON	1K	5%	1/4W	F
R1717	1-249-432-11	CARBON	18K	5%	1/4W	
R1718	1-249-410-11	CARBON	270	5%	1/4W	
R1719	1-249-419-11	CARBON	1.5K	5%	1/4W	
R1720	1-249-441-11	CARBON	100K	5%	1/4W	

REF.NO.	PART NO.	DESCRIPTION				REMARK
R1721	1-249-414-11	CARBON	560	5%	1/4W	
R1722	1-249-385-11	CARBON	2.2	5%	1/4W	F
R1723	1-249-429-11	CARBON	10K	5%	1/4W	
R1724	1-249-436-11	CARBON	39K	5%	1/4W	
R1725	1-249-417-11	CARBON	1K	5%	1/4W	
R1726	1-249-411-11	CARBON	330	5%	1/4W	
R1727	1-249-402-11	CARBON	56	5%	1/4W	F
R1729	1-216-451-11	METAL OXIDE	120	5%	2W	F
R1731	1-249-420-11	CARBON	1.8K	5%	1/4W	
R1732	1-249-426-11	CARBON	5.6K	5%	1/4W	
R1734	1-249-419-11	CARBON	1.5K	5%	1/4W	

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*A-1346-074-A D BOARD, COMPLETE
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4-200-001-01	HOLDER, IC
4-201-023-01	SPACER, INSULATING
*4-341-751-01	EYELET (EY40~EY47,EY51~EY57,EY60~EY64, EY67,EY69,EY70,EY73~EY75,EY77~EY84,EY87, EY89,EY92~EY95,EY100)
*4-341-752-01	EYELET (EY1~EY9,EY11~EY27,EY33)
4-382-854-11	SCREW (M3X10), P, SW (+)
4-812-134-00	RIVET NYLON, 3.5

<CAPACITOR>

C601	1-130-202-00	FILM	0.022MF	10%	400V
C603	⚠1-164-246-51	CERAMIC	0.0022MF	20%	400V
C605	1-124-910-11	ELECT	47MF	20%	50V
C608	1-124-903-11	ELECT	1MF	20%	50V
C612	1-137-125-91	FILM	0.0068MF	5%	63V
C613	1-129-722-00	FILM	0.047MF	10%	630V
C615	1-126-943-11	ELECT	2200MF	20%	25V
C616	1-102-030-00	CERAMIC	330PF	10%	500V
C617	1-162-116-00	CERAMIC	680PF	10%	2KV
C618	1-162-134-11	CERAMIC	470PF	10%	2KV
C619	1-102-030-00	CERAMIC	330PF	10%	500V
C621	1-124-347-00	ELECT	100MF	20%	160V
C622	1-128-320-11	ELECT	2200MF	20%	16V
C623	1-102-030-00	CERAMIC	330PF	10%	500V
C624	1-126-800-51	ELECT	2200MF	20%	35V
C625	1-126-800-51	ELECT	2200MF	20%	35V
C627	1-137-124-91	FILM	0.0047MF	5%	63V
C628	1-124-910-11	ELECT	47MF	20%	50V
C629	1-124-907-11	ELECT	10MF	20%	50V
C631	1-163-075-00	CERAMIC CHIP	0.047MF	10%	25V
C632	1-137-128-91	FILM	0.022MF	5%	63V
C633	1-163-078-11	CERAMIC CHIP	0.033MF	10%	25V
C636	1-137-132-91	FILM	0.1MF	5%	63V
C640	1-126-233-11	ELECT	22MF	20%	50V
C801	1-137-116-11	FILM	1MF	5%	200V
C803	1-164-695-11	CERAMIC CHIP	0.0022MF	5%	50V
C804	1-137-130-91	FILM	0.047MF	5%	63V
C805	1-124-902-00	ELECT	0.47MF	20%	50V
C806	1-124-907-11	ELECT	10MF	20%	50V
C807	1-137-039-91	FILM	0.0015MF	10%	400V
C808	1-162-114-00	CERAMIC	0.0047MF		2KV
C809	1-124-808-51	ELECT	10MF	20%	200V
C810	1-163-001-11	CERAMIC CHIP	220PF	10%	50V
C812	1-162-318-11	CERAMIC	0.001MF	10%	500V
C813	1-108-704-11	MYLAR	0.1MF	10%	200V
C815	1-162-117-00	CERAMIC	100PF	10%	500V

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REF.NO.	PART NO.	DESCRIPTION			REMARK
C816	1-102-244-00	CERAMIC	220PF	10%	500V
C819	1-126-103-11	ELECT	470MF	20%	16V
C821 ⚠	1-137-347-11	FILM	0.022MF	3%	2KV
C822 ⚠	1-162-116-91	CERAMIC	680PF	10%	2KV
C823	1-124-902-00	ELECT	0.47MF	20%	50V
C824	1-137-122-91	FILM	0.0022MF	5%	63V
C825 ⚠	1-162-116-91	CERAMIC	680PF	10%	2KV
C826 ⚠	1-137-515-61	FILM	0.056MF	3%	400V
C827	1-137-132-91	FILM	0.1MF	5%	63V
C828	1-137-041-91	FILM	0.0033MF	10%	400V
C830	1-136-105-00	FILM	0.33MF	5%	200V
C831	1-123-932-00	ELECT	4.7MF	20%	160V
C832	1-124-910-11	ELECT	47MF	20%	50V
C833	1-137-516-11	FILM	1.2MF	5%	200V
C834	1-137-114-11	FILM	0.68MF	5%	200V
C835	1-124-480-11	ELECT	470MF	20%	25V
C836	1-102-228-00	CERAMIC	470PF	10%	500V
C837	1-137-038-91	FILM	0.001MF	10%	400V
C838	1-108-704-11	MYLAR	0.1MF	10%	200V
C839	1-123-950-00	ELECT	47MF	20%	250V
C840	1-124-480-11	ELECT	470MF	20%	25V
C841	1-102-228-00	CERAMIC	470PF	10%	500V
C842	1-137-053-91	FILM	0.068MF	10%	400V
C846	1-123-024-21	ELECT	33MF		160V
C851	1-137-120-91	FILM	0.001MF	5%	63V
C852	1-164-299-11	CERAMIC CHIP	0.22MF	10%	25V
C853	1-124-910-11	ELECT	47MF	20%	50V
C854 ⚠	1-162-115-91	CERAMIC	330PF	10%	2KV
C857	1-124-902-00	ELECT	0.47MF	20%	50V
C861	1-137-132-91	FILM	0.1MF	5%	63V
C863	1-137-094-11	FILM	0.047MF	10%	100V
C866	1-137-120-91	FILM	0.001MF	5%	63V
C869	1-137-132-91	FILM	0.1MF	5%	63V
C870	1-137-120-91	FILM	0.001MF	5%	63V
C871	1-130-651-00	FILM	0.001MF	2%	100V
C872	1-124-907-11	ELECT	10MF	20%	50V
C873	1-137-120-91	FILM	0.001MF	5%	63V
C875	1-102-038-00	CERAMIC	0.001MF		500V
C877	1-124-902-00	ELECT	0.47MF	20%	50V
C878	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C1501	1-163-141-00	CERAMIC CHIP	0.001MF	5%	50V
C1502	1-124-903-11	ELECT	1MF	20%	50V
C1503	1-163-141-00	CERAMIC CHIP	0.001MF	5%	50V
C1504	1-124-480-11	ELECT	470MF	20%	25V
C1505	1-124-911-11	ELECT	220MF	20%	50V
C1506	1-137-135-91	FILM	0.33MF	5%	63V
C1507	1-137-100-91	FILM	0.15MF	10%	100V
C1508	1-124-480-11	ELECT	470MF	20%	25V
C1509	1-124-767-00	ELECT	2.2MF	20%	50V
C1511	1-124-907-11	ELECT	10MF	20%	50V
C1512	1-124-006-11	ELECT	10MF	20%	25V
C1513	1-163-113-00	CERAMIC CHIP	68PF	5%	50V
C1514	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1515	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1516	1-102-228-00	CERAMIC	470PF	10%	500V

<CONNECTOR>

REF.NO.	PART NO.	DESCRIPTION	REMARK
CN0009	*1-568-878-51	PIN, CONNECTOR 3P	
CN0010	*1-568-877-51	PIN, CONNECTOR 2P	
CN0504	*1-568-882-51	PIN, CONNECTOR 7P	
CN0505	*1-568-880-51	PIN, CONNECTOR 5P	
CN0506	*1-568-880-61	PIN, CONNECTOR 5P	
CN0519	*1-568-878-51	PIN, CONNECTOR 3P	
CN0521	*1-508-765-00	PIN, CONNECTOR (5MM PITCH) 3P	
CN0522	*1-564-512-11	PLUG, CONNECTOR 9P	
CN0523	1-573-296-11	CONNECTOR, BOARD TO BOARD 10P	
CN0524	*1-568-878-51	PIN, CONNECTOR 3P	
CN0525	*1-695-294-11	PIN, CONNECTOR (PC BOARD) 6P	
CN0526	*1-568-881-51	PIN, CONNECTOR 6P	
CN0529	*1-508-784-00	PIN, CONNECTOR (5MM PITCH) 1P	
CN5521	*1-568-878-51	PIN, CONNECTOR 3P	
DY1	*1-580-798-11	CONNECTOR PIN (DY) 6P	

<DIODE>

REF.NO.	PART NO.	DESCRIPTION	REMARK
D602	8-719-300-33	DIODE RU-3AM	
D606	8-719-300-33	DIODE RU-3AM	
D608	8-719-300-33	DIODE RU-3AM	
D611	8-719-029-04	DIODE D5L60	
D612	8-719-510-09	DIODE D10SC6M	
D613	8-719-920-68	DIODE ESAB92-02	
D614	8-719-920-68	DIODE ESAB92-02	
D616	8-719-110-31	DIODE RD12ES-B2	
D619	8-719-400-18	DIODE MA152WK	
D620	8-719-911-19	DIODE 1SS119	
D624	8-719-312-40	DIODE R2K	
D801	8-719-018-82	DIODE RGP02-20EL-6394	
D802	8-719-300-33	DIODE RU-3AM	
D804	8-719-400-18	DIODE MA152WK	
D808	8-719-109-88	DIODE RD5.6ES-B1	
D809	8-719-110-03	DIODE RD7.5ES-B2	
D812	8-719-911-55	DIODE U05G	
D813	8-719-911-55	DIODE U05G	
D814	8-719-028-29	DIODE RU30ALFS1	
D815	8-719-300-33	DIODE RU-3AM	
D816	8-719-979-85	DIODE EGP20G	
D818	8-719-109-93	DIODE RD6.2ES-B2	
D821	8-719-400-18	DIODE MA152WK	
D822	8-719-982-20	DIODE MTZJ-30B	
D824	8-719-976-64	DIODE RGP02-17	
D825	8-719-400-18	DIODE MA152WK	
D826	8-719-400-18	DIODE MA152WK	
D827	8-719-983-50	DIODE MTZJ-T-72-2.2A	
D828	8-719-911-19	DIODE 1SS119	
D830	8-719-400-18	DIODE MA152WK	
D831	8-719-400-18	DIODE MA152WK	
D832	8-719-400-18	DIODE MA152WK	
D833	8-719-400-18	DIODE MA152WK	
D1501	8-719-400-18	DIODE MA152WK	
D1503	8-719-911-55	DIODE U05G	
D1504	8-719-982-03	DIODE MTZJ-3.6A	

<IC>

REF.NO.	PART NO.	DESCRIPTION	REMARK
IC601	8-759-073-29	IC TDA4605-3	
IC602	8-759-908-15	IC TL431CLP	
IC603 ⚠	8-749-923-44	IC SFH617G-1	
IC801	8-759-987-16	IC LM393P	
IC802	8-759-987-16	IC LM393P	
IC803	8-759-081-31	IC MC78L12ACPRP	
IC1501	8-759-506-46	IC TDA8179S	

<COIL>

REF.NO.	PART NO.	DESCRIPTION	REMARK
L602	1-410-396-41	FERRITE BEAD INDUCTOR	

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

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Ne les remplacer que par une piece portant le numero specifie.

REF.NO.	PART NO.	DESCRIPTION				REMARK
L604	1-410-396-41	FERRITE BEAD INDUCTOR				
L605	1-459-442-00	COIL (WITH CORE)				
L606	1-459-442-00	COIL (WITH CORE)				
L609	1-410-396-41	FERRITE BEAD INDUCTOR				
L622	1-412-533-21	INDUCTOR 47UH				
L623	1-412-533-21	INDUCTOR 47UH				
L802	1-408-947-00	INDUCTOR 2.2MMH				
L803	1-420-872-00	COIL, AIR CORE				
L807	1-459-483-00	COIL (WITH CORE)				
L808	1-421-541-00	COIL, CHOKE 1000UH				
L809	1-459-111-00	COIL, DRAM CORE (CDI)				
L810	1-460-197-11	COIL, FERRITE (PMC)				
L811	1-412-519-11	INDUCTOR 3.3UH				
L812	1-412-531-31	INDUCTOR 33UH				
L813	1-412-519-11	INDUCTOR 3.3UH				
L817	1-423-374-11	TRANSFORMER, LINEARITY (HLT)				
L1501	1-412-525-21	INDUCTOR 10UH				
L1502	1-412-525-21	INDUCTOR 10UH				
L1503	1-412-525-21	INDUCTOR 10UH				
		<IC LINK>				
PS601⚠	1-532-686-91	LINK, IC 2.7A				
PS602⚠	1-532-686-91	LINK, IC 2.7A				
PS603⚠	1-532-686-91	LINK, IC 2.7A				
PS604⚠	1-532-686-91	LINK, IC 2.7A				
		<TRANSISTOR>				
Q601	8-729-016-14	TRANSISTOR BUZ91A-E3155				
Q602	8-729-177-22	TRANSISTOR 2SB772-Q				
Q603	8-729-900-53	TRANSISTOR DTC114EK				
Q610	8-729-216-22	TRANSISTOR 2SA1162-G				
Q611	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q801	8-729-016-32	TRANSISTOR 2SC4927-01				
Q802	8-729-140-97	TRANSISTOR 2SB734-34				
Q804	8-729-216-22	TRANSISTOR 2SA1162-G				
Q805	8-729-216-22	TRANSISTOR 2SA1162-G				
Q806	8-729-011-00	TRANSISTOR 2SK1916-53F87				
Q807	8-729-119-80	TRANSISTOR 2SC2688-LK				
Q812	8-729-120-28	TRANSISTOR 2SC1623-L5L6				
Q813	8-729-140-96	TRANSISTOR 2SD774-34				
Q818	8-729-216-22	TRANSISTOR 2SA1162-G				
Q1501	8-729-120-28	TRANSISTOR 2SC1623-L5L6				
Q1502	8-729-901-01	TRANSISTOR DTC144EK				
Q1503	8-729-216-22	TRANSISTOR 2SA1162-G				
Q1504	8-729-901-01	TRANSISTOR DTC144EK				
		<RESISTOR>				
JR001	1-216-295-00	METAL GLAZE	0	5%	1/10W	
JR002	1-216-295-00	METAL GLAZE	0	5%	1/10W	
JR003	1-216-295-00	METAL GLAZE	0	5%	1/10W	
JR004	1-216-295-00	METAL GLAZE	0	5%	1/10W	
JR005	1-216-295-00	METAL GLAZE	0	5%	1/10W	
JR500	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR501	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR502	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR503	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR504	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR505	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR506	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR507	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR508	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR509	1-216-296-00	METAL GLAZE	0	5%	1/8W	

REF.NO.	PART NO.	DESCRIPTION				REMARK
JR510	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR511	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JW208	1-217-587-00	RES, SHORT	0.01		1/4W	
R601	1-216-353-00	METAL OXIDE	2.2	5%	1W	F
R602	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R603	1-215-901-00	METAL OXIDE	33K	5%	2W	F
R604	1-247-885-00	CARBON	180K	5%	1/4W	
R605	1-216-313-00	METAL GLAZE	8.2	5%	1/10W	
R606	1-216-033-00	METAL GLAZE	220	5%	1/10W	
R607	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W	
R608	1-215-928-11	METAL OXIDE	68K	5%	3W	F
R609	1-216-005-00	METAL GLAZE	15	5%	1/10W	
R610	1-247-885-00	CARBON	180K	5%	1/4W	
R611	1-249-405-11	CARBON	100	5%	1/4W	
R612	1-247-894-11	CARBON	430K	5%	1/4W	
R613	1-216-260-00	METAL GLAZE	390K	5%	1/8W	
R614	1-216-487-11	METAL OXIDE	12K	5%	3W	F
R615	1-216-487-11	METAL OXIDE	12K	5%	3W	F
R617	1-216-033-00	METAL GLAZE	220	5%	1/10W	
R618	1-216-449-11	METAL OXIDE	56	5%	2W	F
R620	1-216-045-00	METAL GLAZE	680	5%	1/10W	
R621	1-216-659-11	METAL CHIP	2.2K	0.50%	1/10W	
R622	1-216-041-00	METAL GLAZE	470	5%	1/10W	
R623	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R625	1-216-449-11	METAL OXIDE	56	5%	2W	F
R626	1-216-635-11	METAL CHIP	220	0.50%	1/10W	
R627	1-249-398-11	CARBON	27	5%	1/4W	F
R628	1-215-464-00	METAL	62K	1%	1/4W	
R629	1-215-464-00	METAL	62K	1%	1/4W	
R630	1-216-045-00	METAL GLAZE	680	5%	1/10W	
R631	1-216-397-11	METAL OXIDE	4.7	5%	3W	F
R633	1-249-415-11	CARBON	680	5%	1/4W	
R634	1-215-477-00	METAL	220K	1%	1/4W	
R635	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R636	1-216-452-11	METAL OXIDE	180	5%	2W	F
R637	1-216-113-00	METAL GLAZE	470K	5%	1/10W	
R638	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R639	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
R640	1-207-905-00	WIREWOUND	0.27	10%	2W	F
R651	1-216-069-00	METAL GLAZE	6.8K	5%	1/10W	
R801	1-216-069-00	METAL GLAZE	6.8K	5%	1/10W	
R804	1-217-778-11	FUSIBLE	1K	5%	1W	F
R805	1-216-679-11	METAL CHIP	15K	0.50%	1/10W	
R806	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W	
R807	1-216-037-00	METAL GLAZE	330	5%	1/10W	
R808	1-216-085-00	METAL GLAZE	33K	5%	1/10W	
R809	1-216-097-00	METAL GLAZE	100K	5%	1/10W	
R811	1-216-033-00	METAL GLAZE	220	5%	1/10W	
R812	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W	
R813	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R814	1-216-091-00	METAL GLAZE	56K	5%	1/10W	
R815	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R819	1-247-755-11	CARBON	1.8K	5%	1/2W	F
R820	1-216-097-00	METAL GLAZE	100K	5%	1/10W	
R821	1-216-481-11	METAL OXIDE	1.2K	5%	3W	F
R822	1-216-481-11	METAL OXIDE	1.2K	5%	3W	F
R823	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R824	1-216-673-11	METAL CHIP	8.2K	0.50%	1/10W	
R825	1-216-342-11	METAL OXIDE	0.27	5%	1W	F
R826	1-216-166-00	METAL GLAZE	47	5%	1/8W	
R828	1-216-121-00	METAL GLAZE	1M	5%	1/10W	
R829	1-249-429-11	CARBON	10K	5%	1/4W	F
R830	1-216-687-11	METAL CHIP	33K	0.50%	1/10W	

Les composants identifies par une trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

REF.NO.	PART NO.	DESCRIPTION				REMARK
R832	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
R833	1-216-105-00	METAL GLAZE	220K	5%	1/10W	
R834	1-216-113-00	METAL GLAZE	470K	5%	1/10W	
R835	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
R836	1-216-242-00	METAL GLAZE	68K	5%	1/8W	
R837	1-216-695-11	METAL CHIP	68K	0.50%	1/10W	
R838	1-216-101-00	METAL GLAZE	150K	5%	1/10W	
R839	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W	
R840	1-216-264-00	METAL GLAZE	560K	5%	1/8W	
R841	1-249-397-11	CARBON	22	5%	1/4W	F
R842	1-216-454-11	METAL OXIDE	390	5%	2W	F
R846	1-216-671-11	METAL CHIP	6.8K	0.50%	1/10W	
R847	1-216-097-00	METAL GLAZE	100K	5%	1/10W	
R848	1-215-885-00	METAL OXIDE	68	5%	2W	F
R849	1-215-881-11	METAL OXIDE	15	5%	2W	F
R851	1-247-743-11	CARBON	220	5%	1/2W	F
R852	1-249-389-11	CARBON	4.7	5%	1/4W	F
R853	1-249-443-11	CARBON	0.47	5%	1/4W	F
R854	1-249-377-11	CARBON	0.47	5%	1/4W	F
R858	1-249-423-11	CARBON	3.3K	5%	1/4W	
R859	1-215-887-00	METAL OXIDE	150	5%	2W	F
R864	1-216-687-11	METAL CHIP	33K	0.50%	1/10W	
R865	1-215-493-00	METAL	1M	1%	1/4W	
R866	1-216-687-11	METAL CHIP	33K	0.50%	1/10W	
R867	1-216-113-00	METAL GLAZE	470K	5%	1/10W	
R868	1-249-428-11	CARBON	8.2K	5%	1/4W	
R871	1-249-493-11	CARBON	56K	5%	1/2W	
R872	1-249-393-11	CARBON	10	5%	1/4W	F
R873	1-249-393-11	CARBON	10	5%	1/4W	F
R876	1-249-421-11	CARBON	2.2K	5%	1/4W	
R877	1-215-907-11	METAL OXIDE	22	5%	3W	F
R884	1-216-697-11	METAL CHIP	82K	0.50%	1/10W	
R889	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
R891	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
R893	1-215-878-00	METAL OXIDE	33K	5%	1W	F
R894	1-216-264-00	METAL GLAZE	560K	5%	1/8W	
R895	1-216-079-00	METAL GLAZE	18K	5%	1/10W	
R897	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
R898	1-216-262-00	METAL GLAZE	470K	5%	1/8W	
R1501	1-216-674-11	METAL CHIP	9.1K	0.50%	1/10W	
R1502	1-216-663-11	METAL CHIP	3.3K	0.50%	1/10W	
R1503	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R1504	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R1505	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R1506	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
R1508	1-216-683-11	METAL CHIP	22K	0.50%	1/10W	
R1509	1-216-085-00	METAL GLAZE	33K	5%	1/10W	
R1510	1-249-382-11	CARBON	1.2	5%	1/4W	F
R1511	1-215-888-00	METAL OXIDE	220	5%	2W	F
R1512	1-216-370-11	METAL OXIDE	1.2	5%	2W	F
R1514	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R1550	1-216-105-00	METAL GLAZE	220K	5%	1/10W	
R1551	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R1552	1-216-105-00	METAL GLAZE	220K	5%	1/10W	

<VARIABLE RESISTOR>

REF.NO.	PART NO.	DESCRIPTION	REMARK
RV601	1-241-628-11	RES, ADJ, CARBON 2.2K	

<TRANSFORMER>

REF.NO.	PART NO.	DESCRIPTION	REMARK
T601 ⚠	1-697-001-11	S.R.T (SMT89)	
T801 ⚠	1-439-524-11	TRANSFORMER ASSY, FLYBACK (NX-3000A2)	
T803	1-437-090-00	HDT	
T804	1-424-584-11	TRANSFORMER, DYNAMIC FOCUS	

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*A-1347-069-A V BOARD, COMPLETE
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<CAPACITOR>

REF.NO.	PART NO.	DESCRIPTION				REMARK
C01	1-126-233-11	ELECT	22MF	20%	50V	
C02	1-163-038-00	CERAMIC CHIP	0.1MF		25V	
C03	1-163-038-00	CERAMIC CHIP	0.1MF		25V	
C04	1-126-233-11	ELECT	22MF	20%	50V	
C05	1-163-037-11	CERAMIC CHIP	0.022MF	10%	25V	
C06	1-124-120-11	ELECT	220MF	20%	16V	
C07	1-124-903-11	ELECT	1MF	20%	50V	
C08	1-163-097-00	CERAMIC CHIP	15PF	5%	50V	
C09	1-163-141-00	CERAMIC CHIP	0.001MF	5%	50V	
C10	1-163-133-00	CERAMIC CHIP	470PF	5%	50V	
C11	1-163-037-11	CERAMIC CHIP	0.022MF	10%	25V	
C12	1-163-127-00	CERAMIC CHIP	270PF	5%	50V	
C13	1-163-117-00	CERAMIC CHIP	100PF	5%	50V	
C14	1-163-097-00	CERAMIC CHIP	15PF	5%	50V	
C15	1-163-103-00	CERAMIC CHIP	27PF	5%	50V	
C16	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V	
C17	1-163-809-11	CERAMIC CHIP	0.047MF	10%	25V	
C18	1-163-093-00	CERAMIC CHIP	10PF	5%	50V	
C19	1-163-089-00	CERAMIC CHIP	6PF	0.25PF	50V	
C20	1-163-125-00	CERAMIC CHIP	220PF	5%	50V	
C21	1-163-833-00	CERAMIC CHIP	0.068MF		25V	
C22	1-163-117-00	CERAMIC CHIP	100PF	5%	50V	
C23	1-163-210-00	CERAMIC CHIP	0.0016MF	5%	50V	
C24	1-164-505-11	CERAMIC CHIP	2.2MF		16V	
C25	1-164-505-11	CERAMIC CHIP	2.2MF		16V	
C26	1-163-809-11	CERAMIC CHIP	0.047MF	10%	25V	
C28	1-163-137-00	CERAMIC CHIP	680PF	5%	50V	
C30	1-137-033-11	FILM	0.33MF	10%	100V	
C32	1-163-038-00	CERAMIC CHIP	0.1MF		25V	
C33	1-124-910-11	ELECT	47MF	20%	50V	
C34	1-124-907-11	ELECT	10MF	20%	50V	
C35	1-163-243-11	CERAMIC CHIP	47PF	5%	50V	
C36	1-163-239-11	CERAMIC CHIP	33PF	5%	50V	
C37	1-216-295-00	METAL GLAZE	0	5%	1/10W	
C39	1-163-135-00	CERAMIC CHIP	560PF	5%	50V	
C40	1-163-263-11	CERAMIC CHIP	330PF	5%	50V	
C53	1-163-038-00	CERAMIC CHIP	0.1MF		25V	
C54	1-163-038-00	CERAMIC CHIP	0.1MF		25V	

<CONNECTOR>

REF.NO.	PART NO.	DESCRIPTION	REMARK
CN1737	*1-564-511-11	PLUG, CONNECTOR 8P	
CN1741	*1-564-511-11	PLUG, CONNECTOR 8P	

<TRIMMER>

REF.NO.	PART NO.	DESCRIPTION	REMARK
CT01	1-141-418-11	CAP, ADJ	

<DIODE>

REF.NO.	PART NO.	DESCRIPTION	REMARK
D01	8-719-400-18	DIODE MA152WK	
D03	8-719-104-34	DIODE 1S2836	
D04	8-719-104-34	DIODE 1S2836	
D09	8-719-400-18	DIODE MA152WK	
D10	8-719-400-18	DIODE MA152WK	

REF.NO.	PART NO.	DESCRIPTION	REMARK
D11	8-719-400-18	DIODE MA152WK	
D12	8-719-400-18	DIODE MA152WK	
		<IC>	
IC01	8-759-073-28	IC SDA5248C1	
IC02	8-759-037-64	IC SDA5231-2	
IC03	8-759-146-48	IC UPD424256C-80	
IC04	8-752-353-39	IC CXD1050A-15P	
IC05	8-759-987-16	IC LM393P	
		<COIL>	
L01	1-408-411-00	INDUCTOR 15UH	
L02	1-408-414-00	INDUCTOR 27UH	
L03	1-408-417-00	INDUCTOR 47UH	
L04	1-408-413-00	INDUCTOR 22UH	
L05	1-408-409-00	INDUCTOR 10UH	
		<TRANSISTOR>	
Q01	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q03	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q04	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q06	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q07	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q08	8-729-216-22	TRANSISTOR 2SA1162-G	
Q09	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q10	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q11	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q12	8-729-901-00	TRANSISTOR DTC124EK	
		<RESISTOR>	
JR02	1-216-295-00	METAL GLAZE 0 5% 1/10W	
R01	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R02	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R03	1-216-055-00	METAL GLAZE 1.8K 5% 1/10W	
R04	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R05	1-216-041-00	METAL GLAZE 470 5% 1/10W	
R06	1-216-029-00	METAL GLAZE 150 5% 1/10W	
R07	1-216-041-00	METAL GLAZE 470 5% 1/10W	
R08	1-216-071-00	METAL GLAZE 8.2K 5% 1/10W	
R09	1-216-091-00	METAL GLAZE 56K 5% 1/10W	
R10	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W	
R11	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W	
R12	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W	
R13	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
R15	1-216-061-00	METAL GLAZE 3.3K 5% 1/10W	
R16	1-216-033-00	METAL GLAZE 220 5% 1/10W	
R17	1-216-033-00	METAL GLAZE 220 5% 1/10W	
R20	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R21	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R22	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W	
R23	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
R24	1-216-091-00	METAL GLAZE 56K 5% 1/10W	
R25	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
R26	1-216-089-00	METAL GLAZE 47K 5% 1/10W	
R27	1-216-043-00	METAL GLAZE 560 5% 1/10W	
R28	1-216-043-00	METAL GLAZE 560 5% 1/10W	
R29	1-216-043-00	METAL GLAZE 560 5% 1/10W	
R30	1-216-037-00	METAL GLAZE 330 5% 1/10W	
R31	1-216-061-00	METAL GLAZE 3.3K 5% 1/10W	
R32	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R33	1-216-017-00	METAL GLAZE 47 5% 1/10W	

REF.NO.	PART NO.	DESCRIPTION	REMARK
R34	1-216-081-00	METAL GLAZE 22K 5% 1/10W	
R35	1-216-081-00	METAL GLAZE 22K 5% 1/10W	
R36	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W	
R37	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W	
R38	1-218-773-11	METAL CHIP 750K 0.50% 1/10W	
R39	1-216-103-00	METAL CHIP 180K 0.50% 1/10W	
R40	1-216-043-00	METAL GLAZE 560 5% 1/10W	
R41	1-216-033-00	METAL GLAZE 220 5% 1/10W	
R42	1-216-033-00	METAL GLAZE 220 5% 1/10W	
R43	1-216-033-00	METAL GLAZE 220 5% 1/10W	
R44	1-216-033-00	METAL GLAZE 220 5% 1/10W	
R46	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R47	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W	
R48	1-216-071-00	METAL GLAZE 8.2K 5% 1/10W	
R49	1-216-071-00	METAL GLAZE 8.2K 5% 1/10W	
R50	1-216-071-00	METAL GLAZE 8.2K 5% 1/10W	
R54	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R55	1-216-069-00	METAL GLAZE 6.8K 5% 1/10W	
		<CRYSTAL>	
X02	1-567-495-11	OSCILLATOR, CRYSTAL	

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*1-643-004-11 H1 BOARD
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		<CAPACITOR>	
C083	1-163-037-11	CERAMIC CHIP 0.022MF 10% 25V	
C087	1-163-037-11	CERAMIC CHIP 0.022MF 10% 25V	
		<CONNECTOR>	
CN1008*	1-564-516-11	PLUG, CONNECTOR 13P	
		<JACK>	
J81	1-568-678-11	TERMINAL BLOCK, S 3P	
J82	1-562-837-11	JACK	
		<COIL>	
L081	1-408-409-00	INDUCTOR 10UH	
L082	1-408-409-00	INDUCTOR 10UH	
		<RESISTOR>	
JR020	1-216-295-00	METAL GLAZE 0 5% 1/10W	
JR021	1-216-295-00	METAL GLAZE 0 5% 1/10W	
R081	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R082	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
R083	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W	
R084	1-249-419-11	CARBON 1.5K 5% 1/4W	
R085	1-249-419-11	CARBON 1.5K 5% 1/4W	
		<SWITCH>	
S081	1-571-532-21	SWITCH, TACTIL	
S082	1-571-532-21	SWITCH, TACTIL	
S083	1-571-532-21	SWITCH, TACTIL	

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H2 **J**

REF.NO.	PART NO.	DESCRIPTION			REMARK
	*1-642-997-11	H2 BOARD ********			
	*4-201-076-01	HOLDER, LED			
	*4-374-987-01	GUIDE, LIGHT			
	*4-381-686-01	BRACKET (B), LIGHT GUIDE			
		<CONNECTOR>			
CN1132	*1-568-882-51	PIN, CONNECTOR 7P			
		<DIODE>			
D092	8-719-948-31	DIODE LD-201VR			
D093	8-719-948-31	DIODE LD-201VR			
D094	8-719-948-31	DIODE LD-201VR			
		<IC>			
IC091	8-741-101-75	IC SBX1610-11			
		<RESISTOR>			
R091	1-249-413-11	CARBON	470	5%	1/4W

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REF.NO.	PART NO.	DESCRIPTION			REMARK
	*A-1388-145-A	J BOARD, COMPLETE *****************			
		<CAPACITOR>			
C281	1-124-442-00	ELECT	330MF	20%	6.3V
C291	1-101-005-00	CERAMIC	0.022MF		50V
C292	1-101-005-00	CERAMIC	0.022MF		50V
C295	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C296	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C901	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V
C902	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V
C904	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C905	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C906	1-101-004-00	CERAMIC	0.01MF		50V
C907	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C908	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C909	1-101-004-00	CERAMIC	0.01MF		50V
C910	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V
C911	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V
C912	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C913	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C914	1-163-121-00	CERAMIC CHIP	150PF	5%	50V
C915	1-163-121-00	CERAMIC CHIP	150PF	5%	50V
C916	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V
C917	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V
C918	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C919	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C920	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V
C921	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V
C922	1-124-477-11	ELECT	47MF	20%	16V
C923	1-164-346-11	CERAMIC CHIP	1MF		16V
C924	1-124-477-11	ELECT	47MF	20%	16V
C925	1-124-477-11	ELECT	47MF	20%	16V
C926	1-164-346-11	CERAMIC CHIP	1MF		16V
C927	1-124-477-11	ELECT	47MF	20%	16V
C928	1-124-477-11	ELECT	47MF	20%	16V
C929	1-124-477-11	ELECT	47MF	20%	16V
C930	1-124-477-11	ELECT	47MF	20%	16V
C931	1-164-346-11	CERAMIC CHIP	1MF		16V
C932	1-164-346-11	CERAMIC CHIP	1MF		16V
C933	1-124-477-11	ELECT	47MF	20%	16V
C934	1-124-477-11	ELECT	47MF	20%	16V
C935	1-124-477-11	ELECT	47MF	20%	16V
C936	1-164-346-11	CERAMIC CHIP	1MF		16V
C937	1-164-346-11	CERAMIC CHIP	1MF		16V
C938	1-124-477-11	ELECT	47MF	20%	16V
		<CONNECTOR>			
CN1209	1-695-302-11	CONNECTOR, BOARD TO BOARD 50P			
CN1210	*1-564-522-11	PLUG, CONNECTOR 7P			
CN1233	*1-564-518-11	PLUG, CONNECTOR 3P			
CN1240	*1-564-518-11	PLUG, CONNECTOR 3P			
		<DIODE>			
D901	8-719-921-69	DIODE MTZJ-9.1			
D902	8-719-921-69	DIODE MTZJ-9.1			
D903	8-719-921-69	DIODE MTZJ-9.1			
D904	8-719-921-69	DIODE MTZJ-9.1			
D905	8-719-921-69	DIODE MTZJ-9.1			
D906	8-719-921-69	DIODE MTZJ-9.1			
D907	8-719-921-69	DIODE MTZJ-9.1			
D908	8-719-921-69	DIODE MTZJ-9.1			
D909	8-719-921-69	DIODE MTZJ-9.1			
D910	8-719-921-69	DIODE MTZJ-9.1			
D911	8-719-921-69	DIODE MTZJ-9.1			
D912	8-719-921-69	DIODE MTZJ-9.1			
D913	8-719-921-69	DIODE MTZJ-9.1			
D914	8-719-921-69	DIODE MTZJ-9.1			
D915	8-719-921-69	DIODE MTZJ-9.1			
D916	8-719-921-69	DIODE MTZJ-9.1			
D917	8-719-921-69	DIODE MTZJ-9.1			
D918	8-719-921-69	DIODE MTZJ-9.1			
D919	8-719-921-69	DIODE MTZJ-9.1			
D920	8-719-921-69	DIODE MTZJ-9.1			
D921	8-719-921-69	DIODE MTZJ-9.1			
D922	8-719-921-69	DIODE MTZJ-9.1			
D923	8-719-921-69	DIODE MTZJ-9.1			
D924	8-719-921-69	DIODE MTZJ-9.1			
D925	8-719-921-69	DIODE MTZJ-9.1			
D926	8-719-921-69	DIODE MTZJ-9.1			
D927	8-719-921-69	DIODE MTZJ-9.1			
D928	8-719-921-69	DIODE MTZJ-9.1			
		<JACK>			
J291	1-536-996-21	TERMINAL BOARD, INPUT/OUTPUT			
J901	1-695-296-11	TERMINAL BLOCK, S			
J903	1-561-534-41	SOCKET 21P			
J904	1-695-296-11	TERMINAL BLOCK, S			
J905	1-695-293-11	SOCKET 21P			
J906	1-695-296-11	TERMINAL BLOCK, S			
J907	1-695-293-11	SOCKET 21P			
		<COIL>			
L291	1-402-711-11	INDUCTOR, WIDEBAND			
L292	1-402-711-11	INDUCTOR, WIDEBAND			

<TRANSISTOR>

REF.NO.	PART NO.	DESCRIPTION	REMARK
Q281	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q282	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q283	8-729-216-22	TRANSISTOR 2SA1162-G	

<RESISTOR>

REF.NO.	PART NO.	DESCRIPTION				REMARK
JR201	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR901	1-216-295-00	METAL GLAZE	0	5%	1/10W	
JR905	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR906	1-216-295-00	METAL GLAZE	0	5%	1/10W	
JR909	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR910	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR911	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR915	1-216-295-00	METAL GLAZE	0	5%	1/10W	
JR917	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR918	1-216-295-00	METAL GLAZE	0	5%	1/10W	
JR919	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR920	1-216-295-00	METAL GLAZE	0	5%	1/10W	
JR921	1-216-295-00	METAL GLAZE	0	5%	1/10W	
JR923	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR924	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR926	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR927	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR928	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR935	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR939	1-216-295-00	METAL GLAZE	0	5%	1/10W	
JR940	1-216-295-00	METAL GLAZE	0	5%	1/10W	
JR942	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR944	1-216-295-00	METAL GLAZE	0	5%	1/10W	
JR946	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR947	1-216-295-00	METAL GLAZE	0	5%	1/10W	
JR952	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR954	1-216-295-00	METAL GLAZE	0	5%	1/10W	
JR955	1-216-296-00	METAL GLAZE	0	5%	1/8W	
R283	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R284	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R286	1-216-097-00	METAL GLAZE	100K	5%	1/10W	
R287	1-216-216-00	METAL GLAZE	5.6K	5%	1/8W	
R288	1-216-216-00	METAL GLAZE	5.6K	5%	1/8W	
R289	1-216-055-00	METAL GLAZE	1.8K	5%	1/10W	
R291	1-249-413-11	CARBON	470	5%	1/4W	
R292	1-249-413-11	CARBON	470	5%	1/4W	
R901	1-216-039-00	METAL GLAZE	390	5%	1/10W	
R902	1-216-039-00	METAL GLAZE	390	5%	1/10W	
R903	1-216-113-00	METAL GLAZE	470K	5%	1/10W	
R904	1-216-113-00	METAL GLAZE	470K	5%	1/10W	
R905	1-216-188-00	METAL GLAZE	390	5%	1/8W	
R906	1-216-039-00	METAL GLAZE	390	5%	1/10W	
R907	1-216-171-00	METAL GLAZE	75	5%	1/8W	
R908	1-216-171-00	METAL GLAZE	75	5%	1/8W	
R909	1-216-113-00	METAL GLAZE	470K	5%	1/10W	
R910	1-216-113-00	METAL GLAZE	470K	5%	1/10W	
R911	1-216-022-00	METAL GLAZE	75	5%	1/10W	
R913	1-216-067-00	METAL GLAZE	5.6K	5%	1/10W	
R914	1-216-067-00	METAL GLAZE	5.6K	5%	1/10W	
R915	1-216-113-00	METAL GLAZE	470K	5%	1/10W	
R916	1-216-113-00	METAL GLAZE	470K	5%	1/10W	
R917	1-216-022-00	METAL GLAZE	75	5%	1/10W	
R919	1-216-067-00	METAL GLAZE	5.6K	5%	1/10W	
R920	1-216-067-00	METAL GLAZE	5.6K	5%	1/10W	
R921	1-216-022-00	METAL GLAZE	75	5%	1/10W	
R922	1-216-222-00	METAL GLAZE	10K	5%	1/8W	
R923	1-216-039-00	METAL GLAZE	390	5%	1/10W	
R924	1-216-039-00	METAL GLAZE	390	5%	1/10W	
R925	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
R926	1-216-039-00	METAL GLAZE	390	5%	1/10W	
R927	1-216-039-00	METAL GLAZE	390	5%	1/10W	
R928	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
R929	1-216-067-00	METAL GLAZE	5.6K	5%	1/10W	
R930	1-216-113-00	METAL GLAZE	470K	5%	1/10W	
R931	1-216-216-00	METAL GLAZE	5.6K	5%	1/8W	
R932	1-216-113-00	METAL GLAZE	470K	5%	1/10W	
R933	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R934	1-216-067-00	METAL GLAZE	5.6K	5%	1/10W	
R935	1-216-022-00	METAL GLAZE	75	5%	1/10W	
R936	1-216-022-00	METAL GLAZE	75	5%	1/10W	
R937	1-216-113-00	METAL GLAZE	470K	5%	1/10W	
R938	1-216-039-00	METAL GLAZE	390	5%	1/10W	
R939	1-216-188-00	METAL GLAZE	390	5%	1/8W	
R940	1-216-067-00	METAL GLAZE	5.6K	5%	1/10W	
R941	1-216-113-00	METAL GLAZE	470K	5%	1/10W	
R942	1-216-188-00	METAL GLAZE	390	5%	1/8W	
R943	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
R944	1-216-188-00	METAL GLAZE	390	5%	1/8W	
R945	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
R946	1-216-022-00	METAL GLAZE	75	5%	1/10W	
R947	1-216-022-00	METAL GLAZE	75	5%	1/10W	
R948	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R949	1-216-113-00	METAL GLAZE	470K	5%	1/10W	
R950	1-216-067-00	METAL GLAZE	5.6K	5%	1/10W	
R951	1-216-067-00	METAL GLAZE	5.6K	5%	1/10W	
R952	1-216-113-00	METAL GLAZE	470K	5%	1/10W	
R953	1-216-188-00	METAL GLAZE	390	5%	1/8W	
R954	1-216-039-00	METAL GLAZE	390	5%	1/10W	
R955	1-216-039-00	METAL GLAZE	390	5%	1/10W	
R956	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
R957	1-216-039-00	METAL GLAZE	390	5%	1/10W	
R958	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
R959	1-216-071-00	METAL GLAZE	8.2K	5%	1/10W	
R960	1-216-071-00	METAL GLAZE	8.2K	5%	1/10W	
R961	1-216-071-00	METAL GLAZE	8.2K	5%	1/10W	

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*A-1622-005-A P BOARD, COMPLETE

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<CAPACITOR>

REF.NO.	PART NO.	DESCRIPTION			REMARK
C1401	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C1402	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C1403	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V
C1404	1-163-037-11	CERAMIC CHIP	0.022MF	10%	25V
C1405	1-163-097-00	CERAMIC CHIP	15PF	5%	50V
C1406	1-163-097-00	CERAMIC CHIP	15PF	5%	50V
C1407	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C1408	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V
C1409	1-124-903-11	ELECT	1MF	20%	50V
C1410	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C1411	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C1412	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C1414	1-163-121-00	CERAMIC CHIP	150PF	5%	50V
C1416	1-163-129-00	CERAMIC CHIP	330PF	5%	50V
C1417	1-163-129-00	CERAMIC CHIP	330PF	5%	50V
C1419	1-164-005-11	CERAMIC CHIP	0.47MF		25V
C1420	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C1421	1-163-038-00	CERAMIC CHIP	0.1MF		25V

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REF.NO.	PART NO.	DESCRIPTION			REMARK
C1422	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C1423	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C1424	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C1425	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C1426	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C1427	1-126-233-11	ELECT	22MF	20%	50V
C1428	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C1430	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C1431	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C1432	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C1433	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C1434	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C1435	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C1436	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C1437	1-164-343-11	CERAMIC CHIP	0.056MF	10%	25V
C1438	1-163-005-11	CERAMIC CHIP	470PF	10%	50V
C1441	1-164-005-11	CERAMIC CHIP	0.47MF		25V
C1442	1-164-005-11	CERAMIC CHIP	0.47MF		25V
C1443	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C1444	1-164-005-11	CERAMIC CHIP	0.47MF		25V
C1445	1-164-005-11	CERAMIC CHIP	0.47MF		25V
C1446	1-164-005-11	CERAMIC CHIP	0.47MF		25V
C1447	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C1448	1-164-222-11	CERAMIC CHIP	0.22MF		25V
C1449	1-163-257-11	CERAMIC CHIP	180PF	5%	50V
C1450	1-164-005-11	CERAMIC CHIP	0.47MF		25V
C1452	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C1453	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C1454	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C1455	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C1456	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C1457	1-164-005-11	CERAMIC CHIP	0.47MF		25V
C1461	1-164-005-11	CERAMIC CHIP	0.47MF		25V
C1462	1-164-005-11	CERAMIC CHIP	0.47MF		25V
C1463	1-126-101-11	ELECT	100MF	20%	16V
C1464	1-126-101-11	ELECT	100MF	20%	16V
C1465	1-126-101-11	ELECT	100MF	20%	16V
C1466	1-126-101-11	ELECT	100MF	20%	16V
C1467	1-126-101-11	ELECT	100MF	20%	16V
C1471	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1472	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1473	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1481	1-164-005-11	CERAMIC CHIP	0.47MF		25V
C1482	1-163-001-11	CERAMIC CHIP	220PF	10%	50V
C1491	1-124-907-11	ELECT	10MF	20%	50V

<CONNECTOR>

CN1514*	1-568-879-51	PIN, CONNECTOR 4P
CN1515*	1-564-516-11	PLUG, CONNECTOR 13P
CN1516*	1-568-879-51	PIN, CONNECTOR 4P
CN1538*	1-573-299-11	CONNECTOR, BOARD TO BOARD 10P

<DIODE>

D1401	8-719-105-91	DIODE RD5.6M-B2

<FILTER>

FL1403	1-236-071-11	ENCAPSULATED COMPONENT
FL1404	1-236-071-11	ENCAPSULATED COMPONENT
FL1405	1-236-071-11	ENCAPSULATED COMPONENT
FL1406	1-236-071-11	ENCAPSULATED COMPONENT
FL1407	1-236-071-11	ENCAPSULATED COMPONENT
FL1408	1-236-071-11	ENCAPSULATED COMPONENT

<IC>

IC1401	8-759-073-16	IC TDA9160
IC1402	8-759-510-48	IC TDA4660T
IC1403	8-759-055-51	IC SDA9087XGEG
IC1404	8-759-055-52	IC SDA9089XGEG
IC1405	8-759-046-27	IC SDA9086-3
IC1406	8-759-504-21	IC TDA8443A/C4
IC1410	8-759-037-45	IC MC78L08ACPRP
IC1411	8-759-081-30	IC MC78L05ACPRP

<COIL>

L1401	1-408-418-00	INDUCTOR	56UH
L1405	1-408-407-00	INDUCTOR	6.8UH
L1406	1-408-407-00	INDUCTOR	6.8UH

<TRANSISTOR>

Q1401	8-729-120-28	TRANSISTOR 2SC1623-L5L6
Q1402	8-729-120-28	TRANSISTOR 2SC1623-L5L6
Q1403	8-729-120-28	TRANSISTOR 2SC1623-L5L6
Q1404	8-729-216-22	TRANSISTOR 2SA1162-G
Q1405	8-729-120-28	TRANSISTOR 2SC1623-L5L6
Q1406	8-729-120-28	TRANSISTOR 2SC1623-L5L6
Q1407	8-729-216-22	TRANSISTOR 2SA1162-G
Q1408	8-729-216-22	TRANSISTOR 2SA1162-G
Q1409	8-729-216-22	TRANSISTOR 2SA1162-G
Q1413	8-729-216-22	TRANSISTOR 2SA1162-G
Q1414	8-729-900-53	TRANSISTOR DTC114EK
Q1415	8-729-120-28	TRANSISTOR 2SC1623-L5L6
Q1416	8-729-120-28	TRANSISTOR 2SC1623-L5L6
Q1417	8-729-900-53	TRANSISTOR DTC114EK
Q1418	8-729-900-53	TRANSISTOR DTC114EK
Q1419	8-729-900-53	TRANSISTOR DTC114EK
Q1421	8-729-120-28	TRANSISTOR 2SC1623-L5L6
Q1422	8-729-120-28	TRANSISTOR 2SC1623-L5L6

<RESISTOR>

JR1401	1-216-295-00	METAL GLAZE	0	5%	1/10W
JR1402	1-216-295-00	METAL GLAZE	0	5%	1/10W
JR1403	1-216-295-00	METAL GLAZE	0	5%	1/10W
R1401	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R1402	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R1403	1-216-025-00	METAL GLAZE	100	5%	1/10W
R1404	1-216-025-00	METAL GLAZE	100	5%	1/10W
R1405	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R1406	1-216-051-00	METAL GLAZE	1.2K	5%	1/10W
R1407	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R1408	1-216-041-00	METAL GLAZE	470	5%	1/10W
R1410	1-216-029-00	METAL GLAZE	150	5%	1/10W
R1411	1-216-041-00	METAL GLAZE	470	5%	1/10W
R1412	1-216-041-00	METAL GLAZE	470	5%	1/10W
R1413	1-216-041-00	METAL GLAZE	470	5%	1/10W
R1414	1-216-041-00	METAL GLAZE	470	5%	1/10W
R1415	1-216-041-00	METAL GLAZE	470	5%	1/10W
R1417	1-216-033-00	METAL GLAZE	220	5%	1/10W
R1418	1-216-121-00	METAL GLAZE	1M	5%	1/10W
R1419	1-216-027-00	METAL GLAZE	120	5%	1/10W
R1421	1-216-033-00	METAL GLAZE	220	5%	1/10W
R1422	1-216-023-00	METAL GLAZE	82	5%	1/10W

REF.NO.	PART NO.	DESCRIPTION				REMARK
R1424	1-216-041-00	METAL GLAZE	470	5%	1/10W	
R1425	1-216-041-00	METAL GLAZE	470	5%	1/10W	
R1426	1-216-041-00	METAL GLAZE	470	5%	1/10W	
R1427	1-216-041-00	METAL GLAZE	470	5%	1/10W	
R1429	1-216-091-00	METAL GLAZE	56K	5%	1/10W	
R1431	1-216-029-00	METAL GLAZE	150	5%	1/10W	
R1432	1-216-031-00	METAL GLAZE	180	5%	1/10W	
R1433	1-216-113-00	METAL GLAZE	470K	5%	1/10W	
R1434	1-216-023-00	METAL GLAZE	82	5%	1/10W	
R1435	1-216-075-00	METAL GLAZE	12K	5%	1/10W	
R1436	1-216-045-00	METAL GLAZE	680	5%	1/10W	
R1437	1-216-033-00	METAL GLAZE	220	5%	1/10W	
R1438	1-216-047-00	METAL GLAZE	820	5%	1/10W	
R1439	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
R1441	1-216-053-00	METAL GLAZE	1.5K	5%	1/10W	
R1442	1-216-053-00	METAL GLAZE	1.5K	5%	1/10W	
R1443	1-216-053-00	METAL GLAZE	1.5K	5%	1/10W	
R1444	1-216-041-00	METAL GLAZE	470	5%	1/10W	
R1445	1-216-083-00	METAL GLAZE	27K	5%	1/10W	
R1446	1-216-079-00	METAL GLAZE	18K	5%	1/10W	
R1449	1-216-033-00	METAL GLAZE	220	5%	1/10W	
R1450	1-216-033-00	METAL GLAZE	220	5%	1/10W	
R1451	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R1452	1-216-689-11	METAL GLAZE	39K	5%	1/10W	
R1453	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1454	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1455	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R1456	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
R1458	1-216-041-00	METAL GLAZE	470	5%	1/10W	
R1461	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
R1462	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
R1471	1-216-037-00	METAL GLAZE	330	5%	1/10W	
R1481	1-216-097-00	METAL GLAZE	100K	5%	1/10W	
R1482	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R1483	1-216-097-00	METAL GLAZE	100K	5%	1/10W	
R1484	1-216-083-00	METAL GLAZE	27K	5%	1/10W	
R1485	1-216-041-00	METAL GLAZE	470	5%	1/10W	
R1486	1-216-033-00	METAL GLAZE	220	5%	1/10W	
R1487	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R1492	1-216-033-00	METAL GLAZE	220	5%	1/10W	
R1493	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R1494	1-216-174-00	METAL GLAZE	100	5%	1/8W	
R1495	1-216-059-00	METAL GLAZE	2.7K	5%	1/10W	
R1496	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R1497	1-216-041-00	METAL GLAZE	470	5%	1/10W	
R1498	1-216-069-00	METAL GLAZE	6.8K	5%	1/10W	
R1499	1-216-049-00	METAL GLAZE	1K	5%	1/10W	

<CRYSTAL>

X1401	1-567-505-11	OSCILLATOR, CRYSTAL
X1402	1-567-504-11	OSCILLATOR, CRYSTAL

****

*A-1635-001-A M BOARD, COMPLETE
****

<CAPACITOR>

C001	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C003	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C007	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C008	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C010	1-163-117-00	CERAMIC CHIP	100PF	5%	50V

REF.NO.	PART NO.	DESCRIPTION			REMARK
C011	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C012	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C014	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C016	1-163-141-00	CERAMIC CHIP	0.001MF	5%	50V
C018	1-164-505-11	CERAMIC CHIP	2.2MF		16V
C019	1-126-233-11	ELECT	22MF	20%	50V
C032	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C035	1-163-037-11	CERAMIC CHIP	0.022MF	10%	25V
C036	1-164-005-11	CERAMIC CHIP	0.47MF		25V
C037	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C501	1-163-020-00	CERAMIC CHIP	0.0082MF	10%	50V
C502	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C503	1-137-123-91	FILM	0.0033MF	5%	63V
C504	1-137-025-91	FILM	0.56MF	10%	63V
C505	1-124-925-11	ELECT	2.2MF	20%	50V
C506	1-162-568-11	CERAMIC CHIP	0.33MF	10%	16V
C507	1-164-489-11	CERAMIC CHIP	0.22MF	10%	16V
C508	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C509	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C510	1-124-925-11	ELECT	2.2MF	20%	50V
C511	1-137-102-11	FILM	0.022MF	10%	250V
C512	1-126-103-11	ELECT	470MF	20%	16V
C513	1-163-209-00	CERAMIC CHIP	0.0015MF	5%	50V
C514	1-163-105-00	CERAMIC CHIP	33PF	5%	50V
C515	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C519	1-164-161-11	CERAMIC CHIP	0.0022MF	10%	50V
C522	1-163-141-00	CERAMIC CHIP	0.001MF	5%	50V
C523	1-163-141-00	CERAMIC CHIP	0.001MF	5%	50V
C531	1-164-493-11	CERAMIC CHIP	0.047MF	10%	50V
C532	1-164-489-11	CERAMIC CHIP	0.22MF	10%	16V
C538	1-164-489-11	CERAMIC CHIP	0.22MF	10%	16V
C541	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C542	1-163-037-11	CERAMIC CHIP	0.022MF	10%	25V
C543	1-164-161-11	CERAMIC CHIP	0.0022MF	10%	50V
C544	1-164-161-11	CERAMIC CHIP	0.0022MF	10%	50V
C546	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C547	1-163-020-00	CERAMIC CHIP	0.0082MF	10%	50V
C549	1-163-989-11	CERAMIC CHIP	0.033MF	10%	25V
C550	1-163-141-00	CERAMIC CHIP	0.001MF	5%	50V
C552	1-163-037-11	CERAMIC CHIP	0.022MF	10%	25V
C559	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C560	1-164-161-11	CERAMIC CHIP	0.0022MF	10%	50V
C562	1-216-295-00	METAL GLAZE	0	5%	1/10W
C563	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C564	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C565	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C566	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C567	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C568	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C569	1-164-161-11	CERAMIC CHIP	0.0022MF	10%	50V
C570	1-162-568-11	CERAMIC CHIP	0.33MF	10%	16V

<FILTER>

CD001	1-577-364-11	VIBRATOR, CERAMIC

<CONNECTOR>

CN1406	*1-568-880-61	PIN, CONNECTOR 5P
CN1413	1-695-301-11	CONNECTOR, BOARD TO BOARD 40P
CN1426	*1-568-881-51	PIN, CONNECTOR 6P
CN1432	*1-568-882-51	PIN, CONNECTOR 7P
CN1441	*1-564-511-11	PLUG, CONNECTOR 8P

M

REF.NO.	PART NO.	DESCRIPTION	REMARK
		<DIODE>	
D001	8-719-027-82	DIODE MA3039H-TX	
D501	8-719-800-76	DIODE 1SS226	
D503	8-719-401-31	DIODE MA3047L-TX	
D504	8-719-400-18	DIODE MA152WK	
D510	8-719-105-91	DIODE RD5.6M-B2	
		<IC>	
IC001	8-759-072-93	IC SDA30C162	
	*1-540-123-11	SOCKET, IC 68P; IC001	
IC003	**8-759-155-77**	IC M27C512-20BI-**AE25**	
IC501	8-759-513-48	IC TDA2595/V9	
IC561	8-752-347-92	IC CXD2018Q	
IC562	8-759-998-98	IC LM358D	
IC563	8-759-081-30	IC MC78L05ACPRP	
		<COIL>	
L001	1-408-421-00	INDUCTOR 100UH	
L501	1-410-119-11	INDUCTOR 1MMH	
L561	1-408-409-00	INDUCTOR 10UH	
L562	1-408-409-00	INDUCTOR 10UH	
L563	1-408-947-00	INDUCTOR 2.2MMH	
		<TRANSISTOR>	
Q002	8-729-216-22	TRANSISTOR 2SA1162-G	
Q003	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q501	8-729-901-01	TRANSISTOR DTC144EK	
Q502	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q503	8-729-901-01	TRANSISTOR DTC144EK	
Q508	8-729-901-01	TRANSISTOR DTC144EK	
Q509	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q564	8-729-216-22	TRANSISTOR 2SA1162-G	
Q565	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q566	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q567	8-729-901-01	TRANSISTOR DTC144EK	
		<RESISTOR>	
JR002	1-216-295-00	METAL GLAZE 0 5% 1/10W	
JR502	1-216-296-00	METAL GLAZE 0 5% 1/8W	
R001	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R002	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R003	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R006	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R007	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R008	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R010	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R011	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R012	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R014	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R015	1-216-296-00	METAL GLAZE 0 5% 1/8W	
R016	1-216-045-00	METAL GLAZE 680 5% 1/10W	
R017	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R018	1-216-041-00	METAL GLAZE 470 5% 1/10W	
R020	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R021	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
R025	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R026	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R028	1-216-075-00	METAL GLAZE 12K 5% 1/10W	
R030	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R032	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R033	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R034	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W	
R035	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W	
R038	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R049	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R050	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R051	1-216-081-00	METAL GLAZE 22K 5% 1/10W	
R052	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R053	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
R054	1-216-081-00	METAL GLAZE 22K 5% 1/10W	
R055	1-216-081-00	METAL GLAZE 22K 5% 1/10W	
R067	1-216-053-00	METAL GLAZE 1.5K 5% 1/10W	
R068	1-216-053-00	METAL GLAZE 1.5K 5% 1/10W	
R069	1-216-037-00	METAL GLAZE 330 5% 1/10W	
R070	1-216-037-00	METAL GLAZE 330 5% 1/10W	
R501	1-216-047-00	METAL GLAZE 820 5% 1/10W	
R502	1-216-097-00	METAL GLAZE 100K 5% 1/10W	
R503	1-216-067-00	METAL GLAZE 5.6K 5% 1/10W	
R504	1-216-053-00	METAL GLAZE 1.5K 5% 1/10W	
R505	1-216-075-00	METAL GLAZE 12K 5% 1/10W	
R506	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R507	1-216-099-00	METAL GLAZE 120K 5% 1/10W	
R509	1-216-039-00	METAL GLAZE 390 5% 1/10W	
R510	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R511	1-216-097-00	METAL GLAZE 100K 5% 1/10W	
R512	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R513	1-216-230-00	METAL GLAZE 22K 5% 1/8W	
R514	1-216-061-00	METAL GLAZE 3.3K 5% 1/10W	
R515	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R516	1-216-039-00	METAL GLAZE 390 5% 1/10W	
R517	1-216-039-00	METAL GLAZE 390 5% 1/10W	
R518	1-216-075-00	METAL GLAZE 12K 5% 1/10W	
R519	1-216-033-00	METAL GLAZE 220 5% 1/10W	
R520	1-216-093-00	METAL GLAZE 68K 5% 1/10W	
R521	1-216-053-00	METAL GLAZE 1.5K 5% 1/10W	
R522	1-216-085-00	METAL GLAZE 33K 5% 1/10W	
R523	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
R524	1-216-063-00	METAL GLAZE 3.9K 5% 1/10W	
R525	1-216-097-00	METAL GLAZE 100K 5% 1/10W	
R526	1-216-053-00	METAL GLAZE 1.5K 5% 1/10W	
R527	1-216-071-00	METAL GLAZE 8.2K 5% 1/10W	
R528	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R529	1-216-696-11	METAL CHIP 75K 0.50% 1/10W	
R531	1-216-085-00	METAL GLAZE 33K 5% 1/10W	
R532	1-249-427-11	METAL 6.8K 5% 1/4W	
R533	1-216-105-00	METAL GLAZE 220K 5% 1/10W	
R535	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W	
R536	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W	
R538	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R539	1-216-657-11	METAL CHIP 1.8K 0.50% 1/10W	
R540	1-216-295-00	METAL GLAZE 0 5% 1/10W	
R541	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R542	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R544	1-216-085-00	METAL GLAZE 33K 5% 1/10W	
R545	1-216-033-00	METAL GLAZE 220 5% 1/10W	
R546	1-216-061-00	METAL GLAZE 3.3K 5% 1/10W	
R547	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R551	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R552	1-216-097-00	METAL GLAZE 100K 5% 1/10W	
R553	1-216-085-00	METAL GLAZE 33K 5% 1/10W	
R559	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R560	1-216-073-00	METAL GLAZE 10K 5% 1/10W	

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifies par une trame et une marque ⚠ sont critiques pour la securite.
Ne les remplacer que par une piece portant le numero specifie.

REF.NO.	PART NO.	DESCRIPTION	REMARK
R564	1-216-091-00	METAL GLAZE 56K 5% 1/10W	
R565	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
R566	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R567	1-216-085-00	METAL GLAZE 33K 5% 1/10W	
R568	1-216-109-00	METAL GLAZE 330K 5% 1/10W	
R570	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
		<VARIABLE RESISTOR>	
RV506	1-241-766-21	RES, ADJ, CERMET 47K	

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REF.NO.	PART NO.	DESCRIPTION	REMARK
	*1-646-681-11	D3 BOARD ********	
		<CAPACITOR>	
C951	1-102-030-00	CERAMIC 330PF 10% 500V	
		<CONNECTOR>	
CN951	*1-564-505-11	PLUG, CONNECTOR 2P	
		<DIODE>	
D951	8-719-970-39	DIODE ESAC92M-02	
		<COIL>	
L951	1-410-396-41	FERRITE BEAD INDUCTOR	

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MISCELLANEOUS
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REF.NO.	PART NO.	DESCRIPTION	REMARK
	⚠1-402-715-11	COIL, DEGAUSSING	
	⚠1-402-716-11	COIL, DEGAUSSING	
	⚠1-451-394-11	DEFLECTION YOKE (Y29EXA)	
	1-452-032-00	MAGNET, DISK; 10MM ϕ	
	1-452-094-00	MAGNET, ROTATABLE DISK; 15MM ϕ	
	⚠1-452-616-12	NECK ASSY, PICTURE TUBE (NA323)	
	1-504-121-21	SPEAKER (SQUAWKER) (5CM)	
	1-504-145-11	SPEAKER (12CM)	
	⚠1-590-501-11	CORD, POWER (WITH NOISE FILTER)	(KV-S2911B,S2911D,S2913E)
	⚠1-590-762-11	CORD, POWER (WITH PLUG)	(KV-S2912U)
V901	⚠8-733-837-05	PICTURE TUBE (M68KUZ10X)	

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ACCESSORIES AND PACKING MATERIALS
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REF.NO.	PART NO.	DESCRIPTION	REMARK
	4-202-091-11	MANUAL, INSTRUCTION (GERMAN/ENGLISH/FRENCH/DUTCH/ITALIAN/PORTUGUESE)	(KV-S2911D)
	4-202-091-51	MANUAL, INSTRUCTION (FRENCH/GERMAN/ITALIAN)	(KV-2911B)
	4-202-091-61	MANUAL, INSTRUCTION (ENGLISH)	(KV-S2912U)
	4-202-091-71	MANUAL, INSTRUCTION (FRENCH/SPANISH/DUTCH/SWEDISH/DANISH/FINNISH/NORWEGIAN)	(KV-S2913E)
	*4-202-105-01	CUSHION (LOWER) (ASSY)	
	*4-202-106-01	CUSHION (UPPER) (ASSY)	
	*4-202-117-01	INDIVIDUAL CARTON	
	4-202-137-01	DOOR, REAR	
	*4-384-027-01	BAG, PROTECTION	

REMOTE COMMANDER

REF.NO.	PART NO.	DESCRIPTION	REMARK
	1-466-804-11	REMOTE COMMANDER (RM-832)	
	9-903-466-01	POCKET COVER (FOR RM-832)	